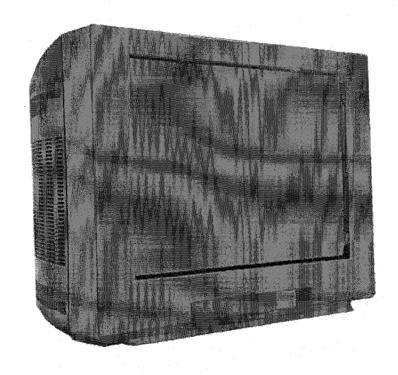


SERVICE MANUAL

FE-2 CHASSIS

| MODEL | COMMANDER | DEST | CHASSIS NO. | MODEL | COMMANDER | DEST | CHASSIS NO. |
|------------|-----------|------|-------------|------------|-----------|------|-------------|
| KV-21FX30B | RM-887 | FR | SCC-Q54G-A | KV-21FX30K | RM-887 | OIRT | SCC-Q51J-A |
| KV-21FX30E | RM-887 | ESP | SCC-Q53H-A | | | | |

FD Trinitron





TRINITRON ® COLOR TV SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODÉ, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

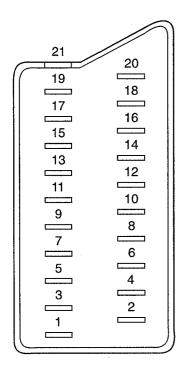
ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

| ITEM MODEL | Television System | Stereo System | Channel Coverage | Color System |
|------------|-------------------|------------------------|---|--|
| В | B/G/H, D/K, I, L | GERMAN/NICAM Stereo | VHF : E2-E12, F2-F10 UHF : E21-E69, F21-F69, B21-B69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41 | PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) |
| E | B/G/H, D/K | GERMAN/NICAM Stereo | VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20 HYPER : S21-S41 | PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) |
| К | B/G/H, D/K | GERMAN/NICAM Stereo | VHF : E2-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S03, S1-S20 HYPER : S21-S41 | PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) |

| | Flat Display FD Trinitron | Sound output | | |
|--------------------------------|--|-------------------------|---|--|
| Picture Tube | Approx 55 cm (21 inches) (Approx 51 cm picture measured | Right and Left speaker | 2x14W (Music Power) 2x7W (RMS) | |
| | diagonally) | General Specifications | | |
| Input/Output Terminals [| REAR] | | | |
| 1: 21-pin Euro connector | Inputs for Audio and Video signals. Inputs for RGB. | Power Requirements | 220 - 240V | |
| (CENELEC standard) | Outputs of TV Video and Audio signals. | Power Consumption | 87 W | |
| 2: 21-pin Euro connector | Inputs for Audio and Video signals. Inputs for S Video. | Dimensions | Approx 545x446x485 mm | |
| | Outputs of TV Video and Audio signals. (selectable) | Weight | Approx 26kg | |
| RCA Connectors | Variable Output for audio signals | Supplied Accessories | RM-887 Remote Commander (1) IEC designated R6 battery (2) | |
| Input/Output Terminals [FRONT] | | Other Features | TV system Autodetection, Teletext Smartlink | |
| Headphone jack | dphone jack stereo mini jack | | : Infrared Control | |
| Audio Inputs | phono jacks | | 3V dc | |
| Video inputs phono jacks | | Power requirements | 2 batteries IEC designation R6 (size AA) | |
| | Design and specifications are | subject to change witho | ut notice. | |

| Model Name Item | KV-21FX30B | KV-21FX30E | KV-21FX30K |
|--------------------|------------|------------|------------|
| Pal Comb | OFF | OFF | OFF |
| PIP | OFF | OFF | OFF |
| RGB Priority | ON | ON | ON |
| Woofer Box | OFF | OFF | OFF |
| Scart 1 | ON | ON | ON |
| Scart 2 | ON | ON | ON |
| Front in (3) | ON | ON | ON |
| Scart 4 | OFF | OFF | OFF |
| Projector | OFF | OFF | OFF |
| Norm B/G | ON | ON | ON |
| Norm I | ON | OFF | OFF |
| Norm D/K | ON | ON | ON |
| Norm AUS | OFF | OFF | OFF |
| Norm L | ON | OFF | OFF |
| Norm SAT | OFF | OFF | OFF |
| Norm M | OFF | OFF | OFF |
| Teletext | ON | ON | ON |
| Nicam Stereo | ON | ON | ON |



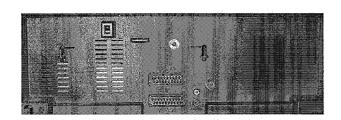
| | ****** | | | | |
|--------|--------|---|---|---------------------------------|---|
| Pin No | 1 | 2 | 4 | Signal | Signal level |
| 1 | 0 | 0 | 0 | Audio output B (right) | Standard level : 0.5V rms Output impedence : Less than 1kohm* |
| 2 | 0 | 0 | 0 | Audio output B (right) | Standard level : 0.5V rms Output impedence : More than 10kohm* |
| 3 | 0 | 0 | 0 | Audio output A (left) | Standard level : 0.5V rms Output impedence : Less than 1kohm* |
| 4 | 0 | 0 | 0 | Ground (audio) | |
| 5 | 0 | 0 | 0 | Ground (blue) | |
| 6 | 0 | 0 | 0 | Audio input A (left) | Standard level : 0.5V rms Output impedence : More than 10kohm* |
| 7 | 0 | • | • | Blue input | 0.7 +/- 3dB, 75 ohms positive |
| 8 | 0 | 0 | 0 | Function select (AV control) | High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF |
| 9 | 0 | 0 | 0 | Ground (green) | |
| 10 | 0 | 0 | 0 | Open | |
| 11 | 0 | • | • | Green | Green signal : 0.7 +/- 3dB, 75 ohms, positive |
| 12 | 0 | 0 | 0 | Open | |
| 13 | 0 | 0 | 0 | Ground (red) | |
| 14 | 0 | 0 | 0 | Ground (blanking) | |
| 45 | 0 | - | - | Red input | 0.7 +/- 3dB, 75 ohms, positive |
| 15 | _ | 0 | 0 | (S signal Chroma input) | 0.3 +/- 3dB, 75 ohms, positive |
| 16 | 0 | • | • | Blanking input (Ys signal) | High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms |
| 17 | 0 | 0 | 0 | Ground (video output) | |
| 18 | 0 | 0 | 0 | Ground (video input) | |
| 19 | 0 | 0 | 0 | Video output | 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) |
| | 0 | - | - | Video input | 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) |
| 20 | - | 0 | 0 | Video input Y (S signal) | 1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB) |
| 21 | 0 | 0 | 0 | Common ground (plug, shield) | |

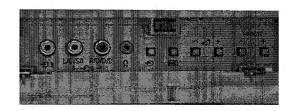
O Connected

Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel

Front Connection Panel





FE-2 SELF DIAGNOSTIC SOFTWARE

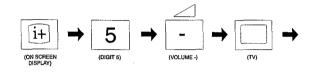
The identification of errors within the FE-2 chassis is triggered in one of two ways: -1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

| Error Message | LED Code |
|---|-------------|
| No error | 00 |
| Reserved | 01 |
| OCP (Over Current Protection) | 02 |
| Not Used | 03 |
| No Vertical Sync | 04 |
| IKR Error at power on | 05 |
| IIC bus clock and/or data lines low at power on | 06 |
| NVM no IIC bus acknowledge at power on | 07 |
| Not Used | 08 |
| Tuner no acknowledge at power on | 09 |
| Sound Processor Error | 10 |
| Jungle controller 8 volts error | 11 |

How to enter into Table 2

- 1. Turn on the main power switch of the TV set and enter into the 'Stanby Mode'.
- 2. Press the following sequence of buttons on the Remote Commander.



3. The following table will be displayed indicating the error count.

Flash Timing Example: e.g. error number 3

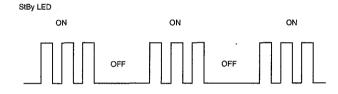


Table 2

| ERROR MENU | | | |
|----------------------------------|---------|----------|---------|
| E02 | OCP | (0, 255) | 0 |
| E03 | OVP N/A | (0, 255) | 0 |
| E04 | VSYNC | (0, 255) | 0 |
| E05 | IKR | (0, 255) | 0 |
| E06 | IIC | (0, 255) | 0 |
| E07 | NVM | (0, 255) | 0 |
| E08 | JUNGLE | (0, 255) | 0 |
| E09 | TUNER | (0, 255) | 0 |
| E10 | SOUNDP | (0, 255) | 0 |
| E11 | 8V | (0, 255) | 0 |
| WORKING TIME HOURS MINUTES | | | 2 11 |

Note: To clear the error count data press '80' on the Remote commander.

SECTION 1 GENERAL

Programme: 01 TVE 02 TVE2 03 TV3 06 CS3 06 CS3 Select channe Exit: QUEND

Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain The operating instructions mentioned here are partial abstracts from the 'Operating as in the manual.

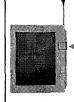
Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to: 1) choose the contry in which you wish to operate the TV, 3) adjust the picture slant 4, search and store all available channels (TV Broadcast) and 5) change the order in which the channels (TV Broadcast) appear on the

However, if you need to change any of these settings, you can do that by selecting the appropriate option in the 🖨 (Set Up menu) or by pressing the Auto Start Up Button 🖭 on the TV set.

Connect the TV plug to the mains socket (220-240V AC,

Press the ① on/off button on the TV set to turn on the TV. The first time you press this button, a Language menu displays automatically on the TV screen.



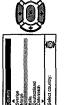




2 Press the • or • button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the







If the country in which you want to use the TV set

does not appear in the list, select "-" instead of a

screen. Press the • or • button to select the country in

3 The Country menu appears automatically on the TV

which you will operate the TV set, then press the OK

button to confirm your selection.





Cyrillic languages we recommend to select Russia country in the case that your own country does not

appear in the list.

In order to avoid wrong teletext characters for

4 Because of the earth's magnetism, the picture might slant

The Picture Rotation menu allows you to correct the a) If it is not necessary, press \spadesuit or \spadesuit to select Not

picture slants if it is necessary. necessary and press OK.



b) If it is necessary, press \spadesuit or \spadesuit to select Adjust now, then press OK and correct any slant of the picture

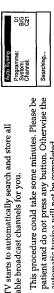
between –5 and +5 by pressing 🛡 or 🛧 . Finally press

OK to store.

5 The Auto Tuning menu appears on the screen. Press the OK button to select Yes.



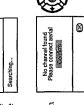




6 The TV starts to automatically search and store all

available broadcast channels for you.

automatic tuning will not be completed.







If no channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press OK. The

the Programme Sorting menu appears automatically on the screen enabling you to change the order in After all available channels are captioned and stored,

@/

g_B

auto tuning process will start again.

If you wish to keep the broadcast channels in the tunned order, go to step 8. e

which the channels appear on the screen.

1 Press the ◆ or ◆ button to select the programme number with the channel (TV Broadcast) you wish If you wish to store the channels in a different order: to rearrange, then press the \$\infty\$ button. 9

programme number position for your selected 2 Press the
 or
 button to select the new channel (TV Broadcast), then press

(3)

Select new position: Exit: (KEND)

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.



8 Press the MENU button to remove the menu from the

Your TV is now ready for use

selected language.

Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the MENU button to switch the first level menu on.



after, press ♦ then press repeatedly ♦ / ♦ / ♦ or ♦ to adjust it and finally press OK to store the new adjustment.

The "Sound Adjustment" menu allows you to alter the sound adjustments. To do this: after selecting the item you want to

SOUND ADJUSTMENT

Level 3 / Function

Level 2

Level 1

2 • To highlight the desired menu or option, press ◆ or ◆

• To enter to the selected menu or option, press •

To return to the last menu or option, press

To confirm and store your selection, press OK.

3 Press the MENU button to remove the menu from the screen.





Menu Guide

Level 3 / Function



PICTURE ADJUSTMENT
The "Picture Adjustment" menu allows you to alter the picture adjustments. alter press ♦ , then press repeatedly ♥ / ♠ / ♦ or ♦ to adjust it and finally press OK to store the new adjustment. This menu also allows you to customise the

Brightness, Colour and Sharpness can only be alterated if "Personal" mode is selected. Hue is only available for NTSC colour signal (e.g. USA video tapes). Select Reset and press OK to reset the picture to the factory preset levels.

continued.

GB

Volume channel changes according to the broadcast signal.
Volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of

Acoustic sound effect.

Spatial:

◆ Off: on:

◆ Auto volume:

Normal.

Detail Adjustment • Sound Effect: • Off:

✦ Personal (for individual settings)
 ✦ Rock

4

Mode

This menu also contains two submenus as following:

connected to the audio outputs on the rear of the TV set. Sound from the TV set. Sound from external amplifier

on:

advertisements).

▼ TV Speakers: ▼ Off:

Level 2 Level 1

picture mode based on the programme you are To do this: after selecting the item you want to watching

Personal (for individual settings).

◆ Live (for live broadcast programmes).
 ◆ Movie (for films).

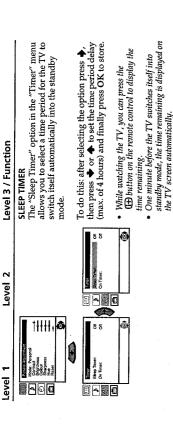
In case of a bilingual broadcast select Dual Sound and set A for sound channel 1, B for sound channel
 2 or Mono for mono channel if available. For a stereo broadcast you can choose Stereo or Mono.

Select Reset and press OK to reset the sound to the factory preset levels.

Treble and Bass can only be altered if "Personal" mode is selected.

continued..

7



To do this: after selecting the option, press and then proceed in the same way as in IV steps 5 and 6 of the section "Switching On the IV and Automatically Tuning".

8490

AUTO TUNING
The "Atur Tuning" option in the "Set Up"
menu allows you to automatically search for
and store all available IV channels.

Level 3 / Function

2 Level

Level 1

ON TIMER 11111

The "On Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically on from standby

To do this: after selecting the option press ϕ , then press ϕ or ϕ to set the time period delay (max. 12 hours) and press OK to stone. Finally press the standby button $|/\phi|$ on the remote control. After the selected length of time the TV switches on automatically.

The standby indicator on the TV set flashes regularly to indicate that "On Timer" is active.
 Any loss of power will cause these settings to be cleared.

If you have not activated the "On Timer" option but the indicator Θ on the TV set flashes, please contact to your nearest Sony Service Centre. \Leftrightarrow

LANGUAGE / COUNTRY
The "Language/Country" option in the "Set
Up" menu allows you to select the language
that the menus are displayed in. It also allows
you to select the country in which you wish to
operate the TV set.

1444 Ô To do this: after selecting the option, press \clubsuit and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the IV and Automatically Tuning".

Auto Turno Auto Turno Programme Labels AV Presset Manual Programme Preset Detail Set Up

B-00

Languagen-Country
Auto Traning
Programme Sorting
Programme Labels
AV Frazet
AV Frazet
Manual Frogramme Fraest
Deball Set Up

æ

To do this: after selecting the option, press and then proceed in the same way as in step 7b) of the section "Switching On the TV and

Automatically Tuning'

Language/County
Auth Uning
Programme Souting
Programme Labels
AV Preset
AV Maxxial Programme Preset
Detail Set Up

The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on

-00

the screen.

PROGRAMME SORTING

press ♦ or ♠ to select the programme number with the channel you wish to name. 2 Press ♦ . With the first element of the Label column highlighted, press ♦ or ♠ to select a letter or number (select ".." for a blank), then PROGRAMME LABELS
The "Programme Labels" option in the "Set
Up" menu allows you to name a channel using
up to five characters (letters or numbers). AV PRESET

The "AV Preset" option in the "Set Up" menu allows you to designate a name to the external equipment you have connected to the sockets of this TV. To do this:

1 After selecting the option, press ♣, then press ♣ or ♣ to select the input source you wish to mame (AVI and AV2 are for the rear Scarts and AV3 for front connectors). Then press \$\infty\$ to confirm this character. Select the other four characters in the same way. Finally 1 After selecting the option, press , then press OK to store. To do this: (2) Language/County
Auto Yuning
Programme Sorting
Programme Labels
Ar Preset
Manual Programme Pr
Detail Set Up

press •

(8)

continued..

continued

Menu System

8

†||||| <u> -</u> 이 🗓

the programme number with the channel you wish to name. When the programme you b) Label a channel using up to five characters. option, press the PROGR +/- button to select character. Select the other four characters in want to name appears on the screen, select the Labelo option and press ♣. Next press ♣ or ♣ to select a letter, number or "." for a blank. Press ♣ to confirm this To do this: Highlighting the Programme the same way. After selecting all the characters, press OK twice to store.

Level 3 / Function

Level 2

Level 1

c) Normally the automatic fine tuning (AFT) is operating, however you can manually fine tune the TV to obtain a better picture reception in the case that the picture is distorted.

To do this: while watching the channel (TV Broadcast) you wish to fine tune, select the AFT option and press ♦. Next press ♦ or ♠ to adjust the fine tuning between -15 and +15. Finally press OK twice to store.

d) Skip any unwanted programme numbers when they are selected with the PROCR +/-buttons.

To do this: Highlighting the Programme option, press the PROGR +/- button to select appears on the screen, select the Skip option and press ♦. Next press ♦ or ♠ to select Yes. Finally press OK twice to confirm and the programme number you want to skip. When the programme you want to skip store.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

correctly scrambling channels when using a decoder connected to the Scart 🗁 2/ 🔊 directly or through a VCR. e) This option allows you to view and record

This option is only available depending on the country you have selected in the "Language/Country" menu.

To do this: select the Decoder option and press \blacklozenge . Next press \blacklozenge or \blacklozenge to select On. Finally press OK twice to confirm and store.

To cancel this function afterwards, select "Off" instead of "On" in the step above.

continued..

The "Noise Reduction" option in the "Detail Set Up " menu allows to reduce automatically the To do this: after selecting the option, press ♦. Then press ♦ or ♠ to select Auto. Finally press OK to confirm and store. picture noise in case of a weak broadcasting To cancel this function afterwards, select "Off" instead of "Auto" in the step above. Level 3 / Function NOISE REDUCTION signal. Level 2 Level 1

equipment connected to the Scart connector Θ 1/ Θ 0 and Θ 3. †###, **6**

The "AV2 Output" option in the "Detail Set Up" menu allows you to select the source to be order you can record from this Scart any signal output from the Scart connector ⊕2/+® in coming from the TV or from an external AV2 OUTPUT

If your VCR supports Smartlink, this procedure is not necessary. To do this: after selecting the option, press Then press ♥ or ♠ to select the desired output signal: TV, AV1, AV3 or AUTO.

If you select "AUTO", the output signal will always he the will always be the same one that is displayed on the screen. If you have connected a decoder to the Scart ⊕2/€3 or to a VCR connected to this Scart, please remember to change back the "AV2 Output" to "AUTO" or "TV" for a correct unscrambling. continued..

When connecting an RGB source, such as a "PlayStation", you may need to readjust the horizontal position of the picture. In that case, you can readjust it through the "RGB Centring" option in the "Detail Set Up". RGB CENTRING

To do this: while watching an RGB source select the "RGB Centring" option and press ♣. Then press ♣ or ♣ to adjust the centre of the picture between −10 and +10. Finally press OK to confirm and store.

PICTURE ROTATION



Because of the earth's magnetism, the picture might slant. In this case, you can correct the pictures slant by using the option "Picture Rotation" in the "Detail Set Up" menu.

To do this: after selecting the option, press ♦. Then press ♦ or ♠ to correct any slant of the picture between -5 and +5 and finally press OK to store.

Teletext

Teletext is an information service transmitted by most TV stations. The index page of the feletext service frestally mann 10th minns in the contract for the index page. teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below. Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

To Switch On Teletext:

After select the TV channel which carries the teletext you wish to view, press

Input 3 digits for the page number, using the numbered buttons. To Select a Teletext page:

• If the counter on the screen continues searching, it is because this page is not available. In that case, If you have made a mistake, retype the correct page number. input another page number

To access the next or preceding page: Press PROGR + () or PROGR - ().

Whilst you are viewing teletext, press 🗐 . Press it again to cancel teletext mode. To superimpose teletext on to the TV:

To freeze a teletext page:

Some teletext pages have sub-pages which follow on automatically. To stop them, press €/♠. Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz): Press (1) Press it again to conceal the information.

To Switch Off Teletext:

Press O

Fastext

Fastext service lets you access pages with one button push.

While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access

the corresponding page.

Specifications

| Sound Output: 2 x 14 W (music power) 2 x 7 W (RMS) | Power Consumption: 60 W Standby Power Consumption: | 0.5 W Dimensions (w x h x d): Approx. 545 x 446 x 485 mm. | Weight: Approx. 26 Kg. | Accessories supplied: 1 Remote Control (RM-887) 2 Batteries (IEC designated) | Other features: • Telepext, Basiext, TOPtext | Sleep Timer Wake UP Timer | Smartlink (direct link between your TV set and a compatible VCR. For more | information on Smartlink, please refer to | the Instruction Manual of your VCN. • TV system Autodetection. |
|--|---|--|--|--|--|-------------------------------|---|---|---|
| TV system: Depending on your country selection: B/G/H, D/K | Colour system: PAL, SECAM NTSC 3.58, 4.43 (only Video In) | <u></u> | CATV: S1-S20 HYPER: S21-S41 D/K: R1-R12, R21-R69 | Picture Tube: Flat Display FD Trinitron 21" (approx. 55 cm. measured | diagonally) Rosr Terminals | (CFNELEC standard) | including audio/video input, RGB input, TV | audio/video output. | (→2/−€) 21-pin Scart connector (CENELEC standard) |

Troubleshooting

Here are some simple solutions to the problems which may affect the picture and sound.

| No picture (screen is dark) and no • Che sound. TY. | • Check the aerial connection. |
|---|--|
| • If t | Plug the TV in and press the (O) button on the front of TV. |
| the | • If the standby indicator O is on, press I/O button on the remote control. |
| Poor or no picture (screen is dark), • Us but good sound. Ad | •Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings. |
| No picture or no menu information • Ch from equipment connected to the Scart connector. | • Check that the optional equipment is on and press the • D button repeatedly on the remote control until the correct input symbol is displayed on the screen. |
| Good picture, no sound. • Cl Ac | • Press the ∠+- button on the remote control. • Check that "TV Speakers" is "On" on the "Sound Adjustment" mend. • Check that headphones are not connected. |
| No colour on colour programmes. • U. Ac fac | Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings. |
| Distorted picture when changing • Tr programmes or selecting teletext. co | Turn off any equipment connected to the Scart connector on the rear of the TV. |
| Wrong characters appear when • U viewing teletext. | Using the menu system, enter to the "Language/ Country" menu and select the country in which you operate the IV yes!. For Cyrillic languages, we agreement to select Russia country in the case that your own country does not appear in the list. |
| Picture slanted of op | Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant. |
| Noisy picture when viewing a TV • U channel. | • Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. • Using the menu system, select the "Noise Reduction" option in the "Detail Set Up" menu and select "Auto" to reduce the noise in the picture. |
| No unscrambling or unstable picture • U whilst viewing a scrambling channel T with a decoder connected through C the Scart connector (3-2/-83). | • Using the menu system, select the "Set Up" menu. Then enter to "Detail Set Up" option and set "AV2 Output" to "TV". |
| Remote control does not function. | Replace the batteries. |
| The standby indicator Θ on the TV • C flashes even though the "On Timer" | Contact to your nearest Sony service centre. |

8<u>9</u>

In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free 😩

21-pin Scart connector (CRNELEC standard) including audio / video input, § video input, § video input, selectable audio / video output and Smartlink interface.

audio outputs (Left/ Right) - phono jacks

φ

Front Terminals

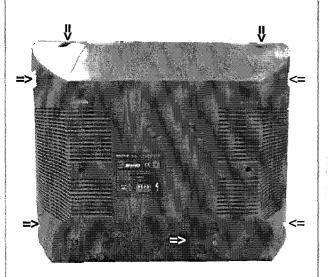
23 video input – phono jack

23 audio input – phono jacks

7 headphones jack

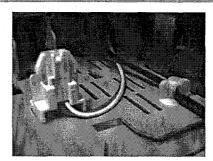
SECTION 2 DISASSEMBLY

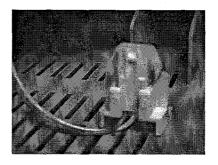
2-1. Rear Cover Removal



Release the mains power cable from its securing posts.
Remove the rear cover fixing screws indicated. Pull the rear cover away from the front beznet. Take care when removing the rear cover not to damage the speaker cables as speakers are fitted inside the rear cover.

2-2. Speaker Connector Disconnection





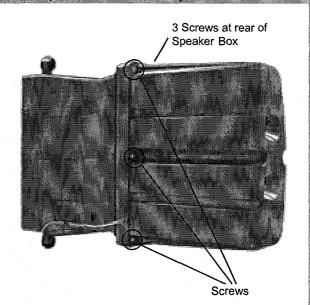
Before completely removing the rear cover disconnect the speaker connectors which are located on the inside base of the beznet.

2-3. Speaker Box Removal

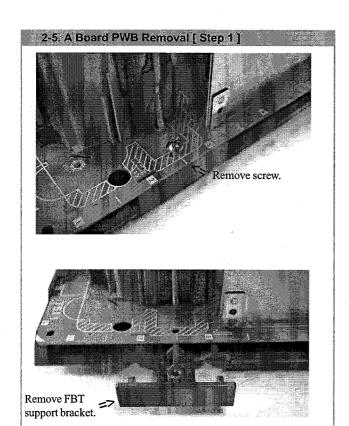


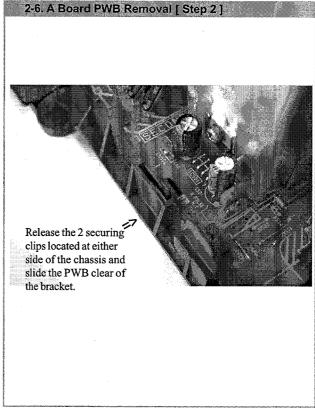
To remove the speaker box pull forward in the direction of the arrows while holding the rear cover. Ensure the weight is supported as the box is pulled from its mountings.

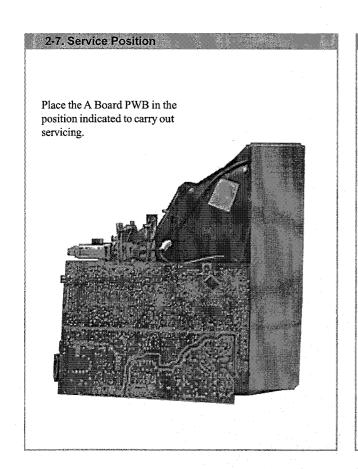
2-4. Speaker Box Disassembly

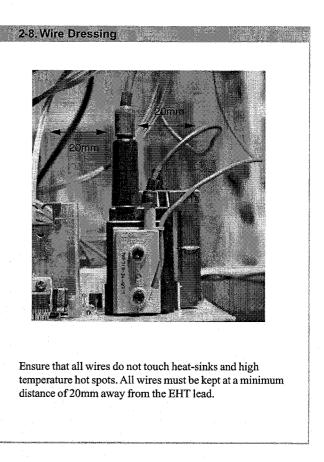


To gain access to the speaker remove the six screws and pull the two halves of the speaker box apart.



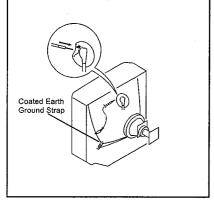




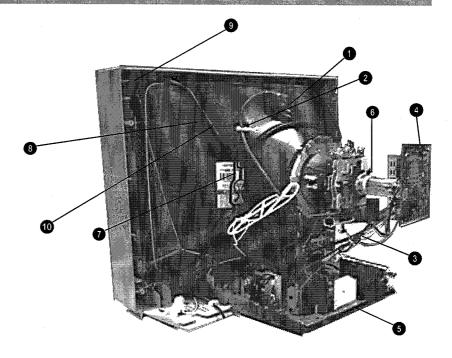


WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



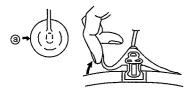




- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Release the EHT lead from its CRT support bracket.
- Unplug all interconnecting leads from the Deflection yoke, degaussing coils and CRT grounding strap.
- 4. Remove the C Board from the CRT.
- 5. Remove the chassis assembly.
- 6. Loosen the Deflection yoke fixing screw and remove.
- 7. Remove the Degaussing Coil holders.
- 8. Place the set with the CRT face down on a cushion.
- Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
- Remove the Degaussing Coils.
 Remove the CRT grounding strap and spring tentioners.
 [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

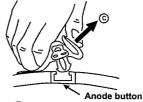
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



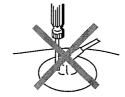
Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

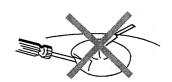


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- 3. A metal fitting called a shatter hook terminal is fitted inside the
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Carry out the adjustments in the following order:

Beam Landing.

3-2. Convergence.

3-3. Focus.

3-4. White Balance.

Note: Test equipment required.

1. Color bar/pattern generator.

Degausser.

3. Oscilloscope.

4. Digital multimeter.

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

3-1. Beam Landing

- Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 - 3-3].
- Move the deflection yoke backwards and adjust so that the entire screen becomes Red. [See Fig.3-1]
- Switch the raster signal to Blue, then to Green and verify the condition.
- When the position of the deflection yoke has been determined, fasten the deflection yoke with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

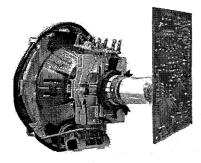


Fig. 3-1.



Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.



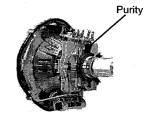
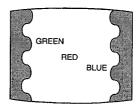


Fig. 3-3.



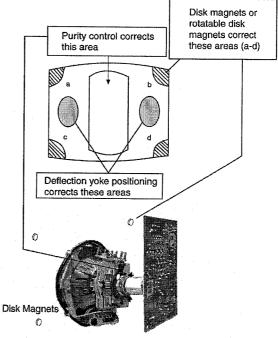


Fig.3-4

3-2. Convergence

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

Horizontal and Vertical Static Convergence

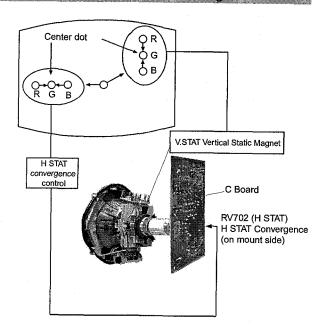
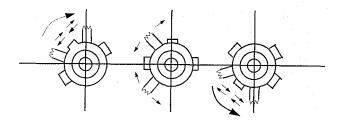


Fig.3-5

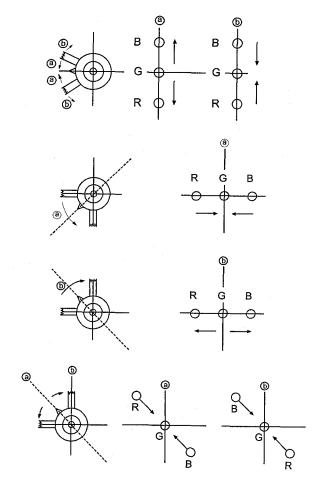
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below.

[In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

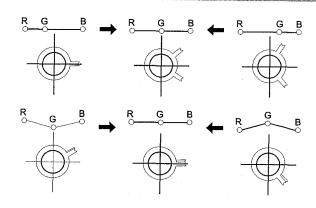
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



 If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.



Operation of the BMC (Hexapole) magnet.



The movement of the magnets interact with each other and so the respective dot position should be monitored while carrying out this adjustment.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen (by moving the dots in the horizontal direction).

Geometry Adjustment.

Preparation:

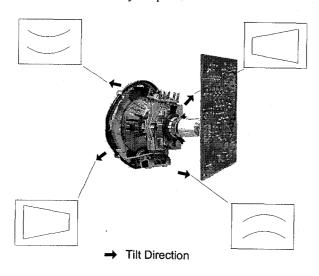
Before starting this adjustment, adjust the horizontal and vertical static convergence.

- 1. Remove the deflection yoke spacer.
- 2. Tilt the deflection yoke as indicated in the figure below and optimise the geometry.

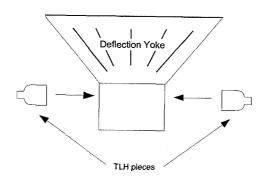
Tilting the DY Up and Down will balance the upper and lower pin adjustment.

Tilting the DY Left and Right will balance the H-Trap adjustment.

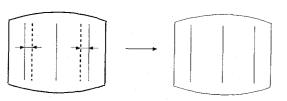
3. Re-install the deflection yoke spacer.



HTIL Adjustment



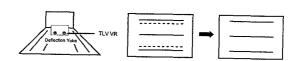
HTIL correction can be performed by adding a TLH correction assembly to the Deflection yoke.



YCH Adjustment

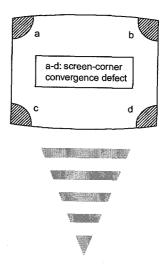


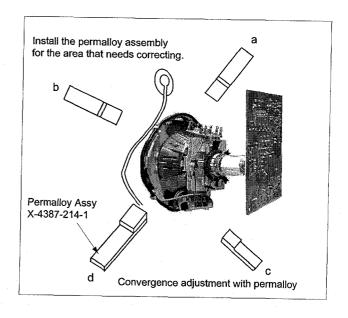
TLV Adjustment



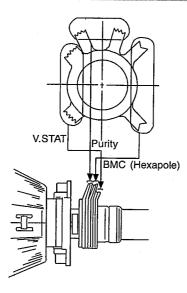
Screen Corner Convergence

If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



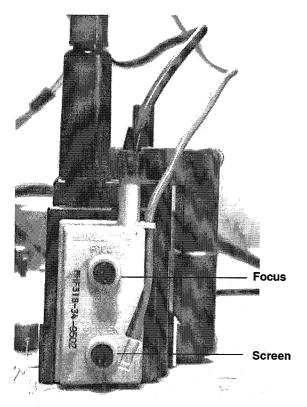


Layout of each control



3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer
 to obtain the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the
 magenta-ring appears on the screen. In this case, adjust the
 focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
- 4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
- 3. Select 'Service' from the on screen menu display and press the right arrow button on the remote commander.
- 4. The 'Service' menu will appear on the screen. [See Page 19]
- 5. Set the 'Contrast' to MAX.
- 6. Set the 'R-Drive' to 25.
- 7. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the 'Contrast' to MIN.
- Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 11. Press the 'OK' button to write the data for each item.

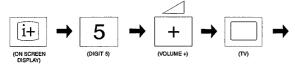
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the suppliedemote Commander RM-887.

How to enter into the Service Mode

- 1. Turn on the main power switch and enter into the stand-by mode.
- Press the following sequence of buttons on the Remote Commander.



"TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.

3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

| Geometry Service Design Status Sound IF adjust Error Menu |
|--|
| FE-2 Stereo v1.30 Factory data FFh FFh MSP Device : MSP3411G |

- 4. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 5. Press the right arrow button to enter into the required menu item.
- Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note:

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer

 Cu

accessing the 'Service Menu' switch the TV set OFF and then $\ensuremath{\mathsf{ON}}$.

| ERROR MENU | | | |
|--------------|---------|----------|----|
| E02 | OCP | (0, 255) | 0 |
| E03 | OVP N/A | (0, 255) | 0 |
| E04 | VSYNC | (0, 255) | 0 |
| E05 | IKR | (0, 255) | 0 |
| E06 | IIC | (0, 255) | 0 |
| E07 | NVM | (0, 255) | 0 |
| E08 | JUNGLE | (0, 255) | 0 |
| E09 | TUNER | (0, 255) | 0 |
| E10 | SOUNDP | (0, 255) | 0 |
| E11 | 8V | (0, 255) | 0 |
| WORKING TIME | | | 2 |
| MINUTES | | | 11 |

| SERVICE | | , |
|--|---|--|
| Offset-R Offset-G R-Drive G-Drive B-Drive Peak-Freq Luma-Delay SCO White-Peak Subcont Subright Subcol Subsharp Cutoff Br. Br OSD | (0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 15) (0, 15) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) | Adj Adj 25 Adj O 8 2 15 4 31 Adj 31 |
| Br TXT | (0, 15) | 9 |

| GEOMETRY | | |
|---|---|---|
| V-Linearity V-Scroll Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Slope V-Size S-Correction V-Centre V-Zoom Magenta | (0, 63) (0, 63) (0, 15) (0, 15) (0, 63) (0, 63) | Adj 32 8 6 Adj Adj Adj Adj Adj Adj Adj Adj 23 40 |

| IF ADJUST | | |
|--|------------|-------------------|
| AGC Adjust Automute Audio Gain L Gating | (-16, +15) | +0 1 0 0 |

Sub Brightness Adjustment

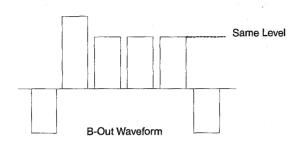
- 1. Input a Monoscope pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- 3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J701 [C Board].
- 3. Adjust the Sub-Contrast ['TT11'] to obtain a voltage of 95 +/-5V.

Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 5 of CN003 [A Board].
- 3. Enter into the 'Service' service menu.
- Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

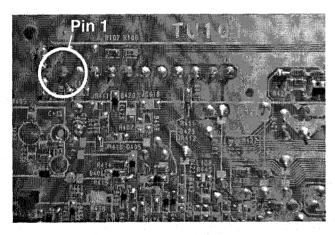


Tuner AGC Adjustment

Note:

There should be no need to adjust the AGC as this is preadjusted during manufacture of the FRONTEND. If the AGC does need adjustment then follow steps 1. to 4. below.

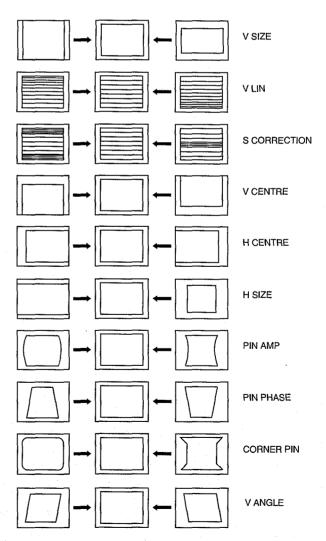
- Receive a signal of 62dBuV / 75 ohm terminated via the tuner antenna socket.
- 2. Connect a voltmeter to pin1 of TU101 [print side of A Board] or to the AGC pin of CN001 [mount side of A Board].
- 3. Confirm that the AGC voltage is 3.5 volts +/- 0.3 volts.
- If adjustment is required, then re-adjust the AGC variable resistor (located at the top rear of the FRONTEND) to obtain a voltage of 3.5V +/- 0.3V.



[Print side of A board]

Deflection System Adjustment

- . Enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.



4-2.TEST MODE 1:

Test Mode 1 is available by pressing the 'TEST' button once, OSD 'T' appears. The functions described below are available by selecting the indicated keys. The 'T' is released automatically after each command is executed.

| KEY | T-MODE FUNCTION |
|---------------------|--------------------|
| volume + | volume maximum |
| volume - | Picture minimum |
| picture + | Picture maximum |
| picture - | Picture minimum |
| colour up | colour maximum |
| colour down | colour minimum |
| brightness - bright | brightness maximum |
| brightness - dark | brightness minimum |
| hue - purplish | hue - purplish |
| hue - greenish | hue - greenish |
| sharpness - sharp | sharpness maximum |
| sharpness - soft | sharpness minimum |
| balance left | balance full left |
| balance right | balance full right |
| treble up | treble maximum |
| treble down | treble minimum |
| bass up | bass maximum |
| bass down | bass minimum |

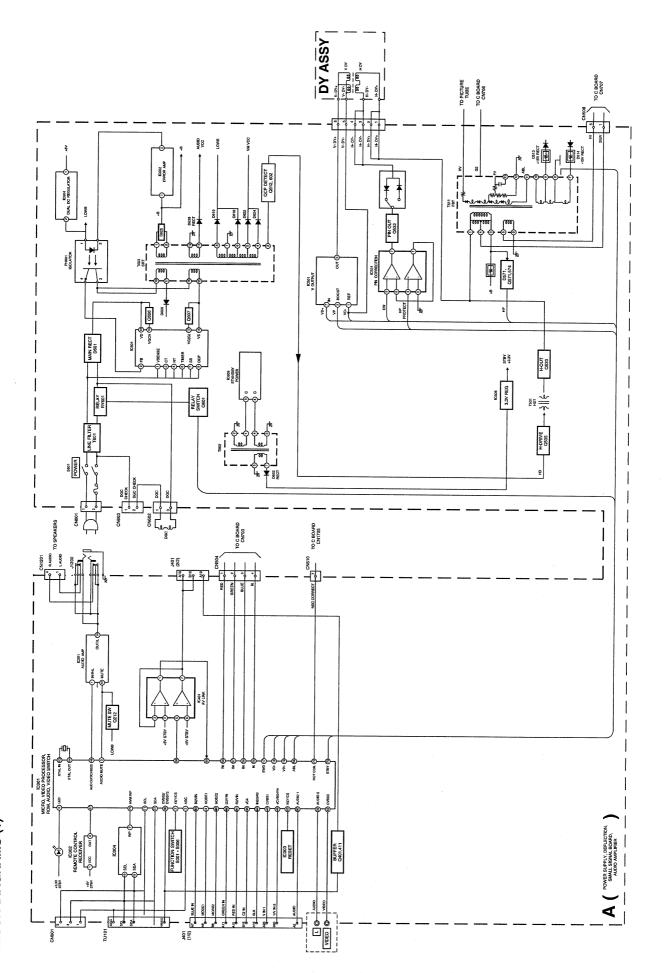
4-3.TEST MODE 2:

Test Mode 2 is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

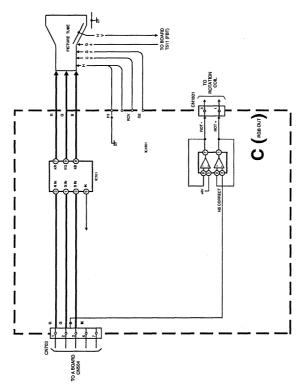
| 00 | 'TT' mode off |
|----|-------------------------------------|
| 01 | Picture maximum |
| 02 | Picture minimum |
| 03 | Set speaker/headphone Volume to 35% |
| 04 | Set speaker/headphone Volume to 50% |
| 05 | Set speaker/headphone Volume to 65% |
| 06 | Set speaker/headphone Volume to 80% |
| 07 | Ageing mode |
| 08 | Shipping Condition |
| 11 | Sub picture adjustment |
| 12 | Sub colour adjustment |
| 13 | Sub Brightness adjustment |
| 14 | Text H Position adjustment |
| 15 | Rotation Coil Test |
| 16 | Picture level 50% |
| 19 | Factory Mode Enable/Disable |
| 21 | Destination ADEKR |
| 22 | Destination BL |
| 23 | Destination ADEKR |
| 24 | Destination U |
| 25 | Destination ADEKR |
| 26 | Destination BL |
| | |

| 27 | Destination ADEKR |
|----|---|
| 28 | Destination ADEKR |
| 31 | Auto Shutoff Enable/Disable |
| 33 | Rotation ON/OFF |
| 35 | CRT 4:3 <> 16:9; Display TV status |
| 36 | Velocity Modulation (VM) OFF/ON test |
| 38 | G2 adjustment |
| 41 | Re-initialise NVM |
| 43 | Select Dual A sound |
| 44 | Select Dual B sound |
| 45 | Select Mono sound |
| 46 | Select Stereo sound |
| 48 | Set NVM as non virgin |
| 49 | Set NVM as virgin |
| 51 | Virtual Dolby on/off |
| 52 | Subwoofer / MPB (Bass enhancement) Enable |
| 54 | Dot structure C/M (chroma trap)ination ADEKR |
| 55 | Tuner selection (SONY/ALPS) |
| 56 | BBE enable/disable |
| 57 | BBE menu line enable/disable |
| 61 | Auto AGC Adjustment |
| 62 | AM from baseband enable/disable |
| 63 | Enable/Disable YC3 connector |
| 64 | Enable/Disable RGB priority |
| 65 | RGB auto-detect enable/disable |
| 66 | On timer enable/disable |
| 67 | Manual AGC Adjustment |
| 68 | Enable/Disable X26 countermeasure (N problem) |
| 69 | Enable/Disable ACI feature |
| 71 | Force PAL video |
| 72 | Un-force PAL (restore normal video condition) |
| 73 | Enable Zweiton D/K2 system (6.5/6.74) |
| 74 | Enable Zweiton D/K3 system (6.5/5.74) |
| 78 | Balance full left |
| 79 | Balance full right |
| 87 | Local keys test |
| 89 | Enable/Disable watchdog |
| 91 | Set 14:9 zoom mode |
| 92 | Set SMART zoom mode |
| 93 | Set 16:9 zoom mode |
| 94 | Set ZOOM mode |
| 95 | Set 4:3 zoom mode |
| 99 | Display Error and Working Time menu |

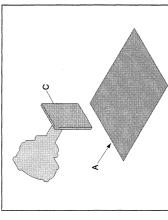
24



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5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted.
 pF: µµF 50WV or less are not indicated except for electrodyfet types.
 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Electrical power rating : 1/4W

- Chip resistors are 1/10W All resistors are in ohms. K = 1000 ohms, M = 1000,000 ohms

 - : nonflammable resistor.
 - : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic surve B, unless otherwise noted. All voltages are in Volts.
 Readings are the with a 10Mohm digital mulmeter. Readings are brien with a color bar intust signal. Voltage variations may be noted due to normal production Voltage variations may be noted due to normal production.
- : B + bus.
- . B bus.
- : RF signal path. : earth - ground.
- : earth chassis.

Reference Information

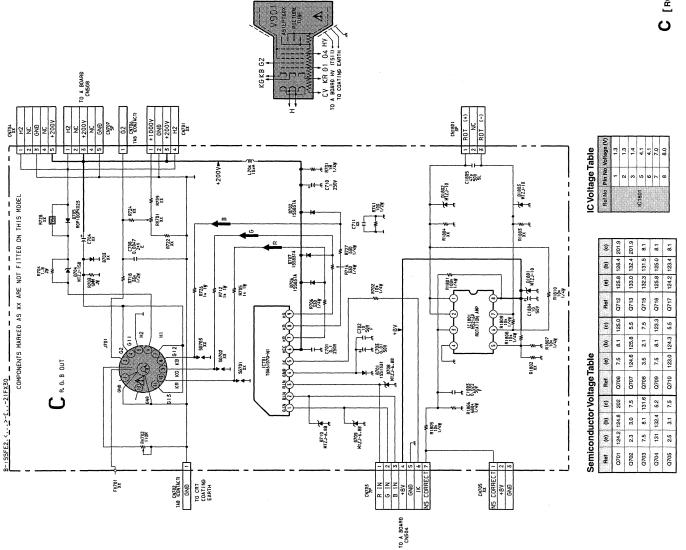
| RESISTOR | RN | : METAL FILM |
|-----------|-------|---------------------------|
| | ЯC | : SOLID |
| | FPRD | : NON FLAMMABLE CARBON |
| | FUSE | : NON FLAMMABLE FUSIBLE |
| | RS | NON FLAMMABLE METAL OXIDE |
| | 88 | : NON FLAMMABLE CEMENT |
| | RW | : NON FLAMMABLE WIREWOUND |
| | × | : ADJUSTMENT RESISTOR |
| COIL | LF-8L | : MICRO INDUCTOR |
| CAPACITOR | TA | : TANTALUM |
| | 5d | STYROL |
| | dd | : POLYPROPYLENE |
| | PŢ | : MYLAR |
| | MPS | : METALIZED POLYESTER |
| | MPP | : METALIZED POLYPROPYLENE |
| | ALB | : BIPOLAR |
| | ALT | : HIGH TEMPERATURE |
| | ALR | : HIGH RIPPLE |

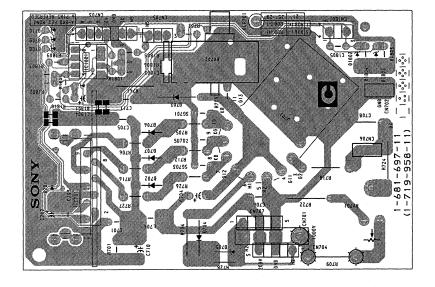
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

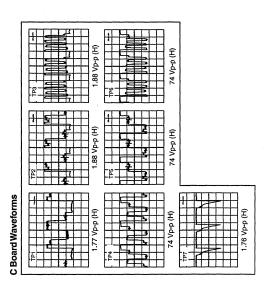
Note: Les composants identifiés par une trame et par une marque. A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié, specified.

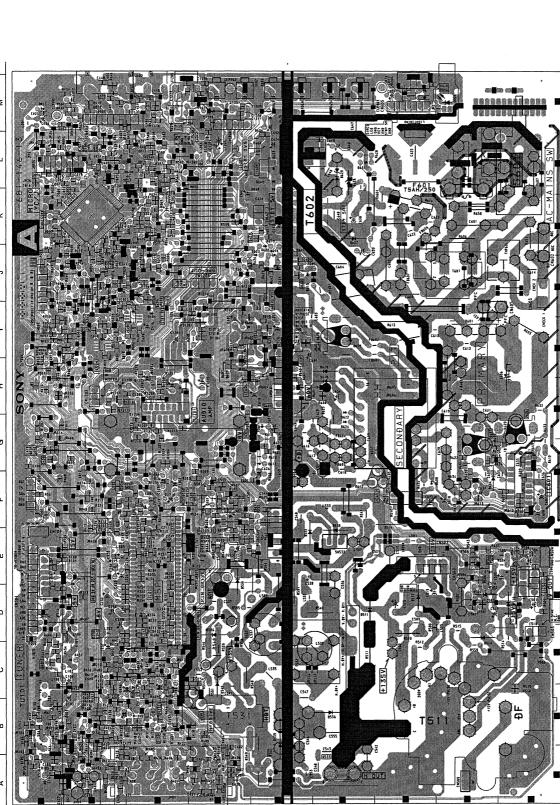
8











Semiconductor Voltage Table

| Ref | (e) | (q) | (0) | Raf | (0) | (q) | 9 |
|------|------|-----|-----|------|-------|-------|------|
| 0013 | 0 | 0.7 | 0 | Q604 | 0 | 0 | 2.5 |
| 0016 | 0 | 0 | 3.3 | 9090 | 0 | 0 | 5.6 |
| 0212 | 0 | 0.7 | 0 | 090 | 9.6 | 5.6 | 0 |
| Q401 | 4.8 | 4.2 | 1.8 | | | | |
| 0411 | 1. | 1.7 | 4.2 | Ref | (8) | (6) | (e) |
| Q601 | 5.6 | 4.8 | 5.3 | 9090 | 10.9 | 14.5 | 86.7 |
| Q602 | 14.2 | 5.1 | 80 | Q607 | -82.4 | -79.9 | 10.9 |
| 0603 | 80 | 80 | 0 | Q535 | 0 | 2.5 | 95.2 |

10201 10201 10501 10501 10602 10609 10609 10609

| BHODE | D001 | D002 | D003 K | M - M | D000 | | |
|-------|------|------|--|---|------------------------------|-------------------|--|
| | | NOTE | Portions of the circuit marked as shown are high | voltage areas. Use care to prevent electric shock | auring inspection of repair. | Account Contracts | |

Semiconductor Location Table

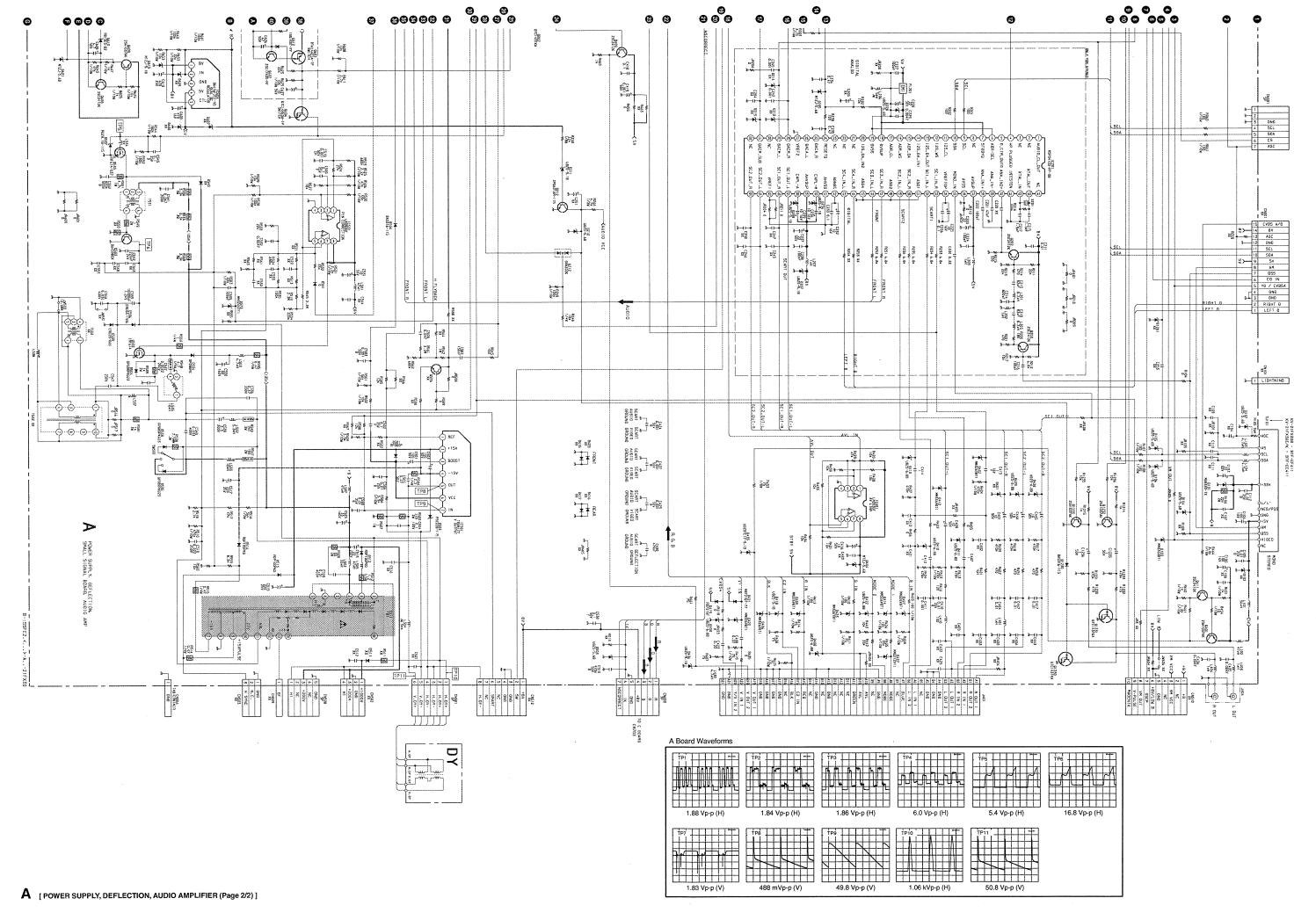
| NOTE: Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair. | |
|---|--|
| | |

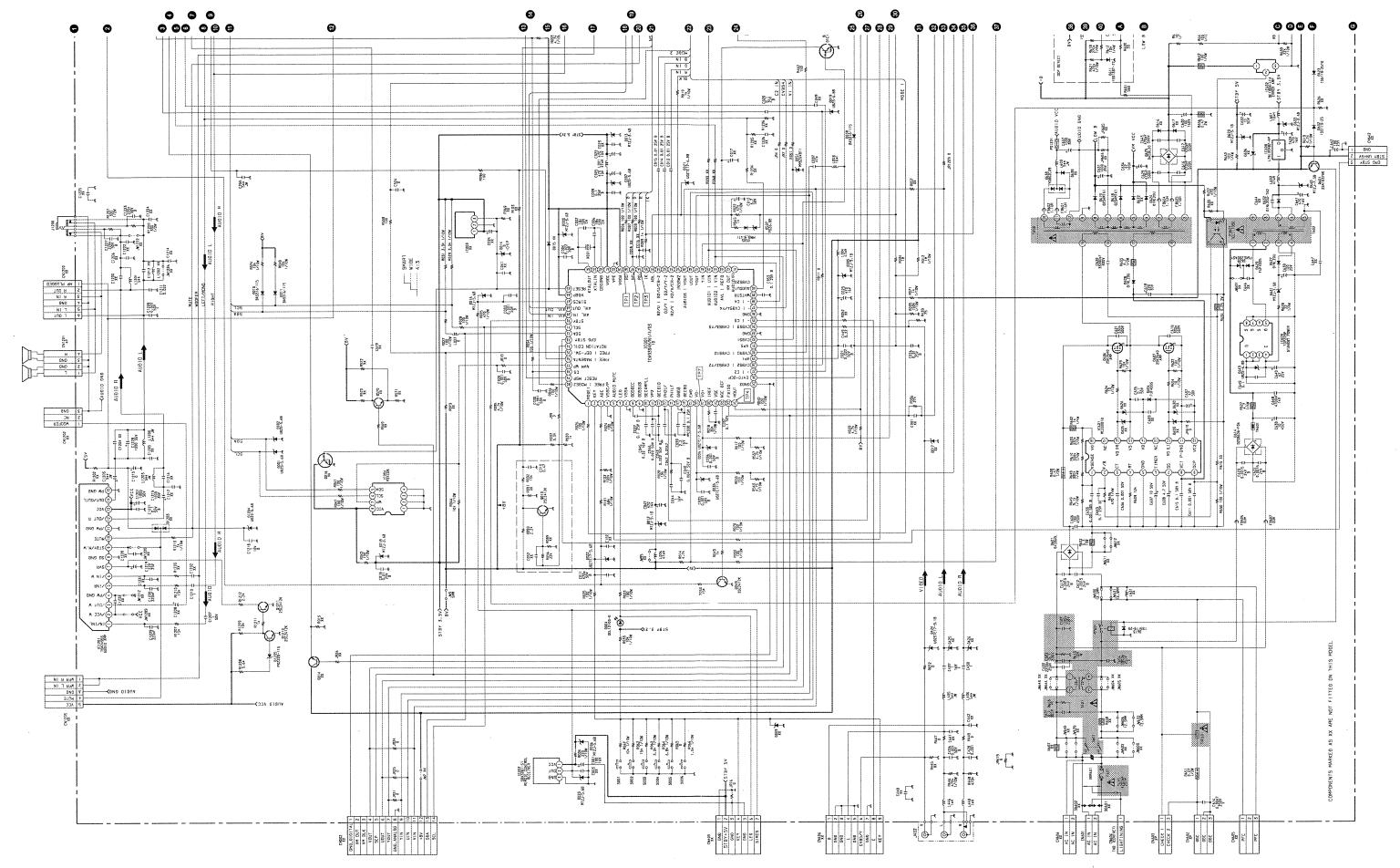
| 7 | | D001 | 1-2 |
|---|---|------|-------|
| | NOTE: | D002 | -3 |
| A | Portions of the circuit marked as shown are high | D003 | K-2 |
|) | voltage areas. Use care to prevent electric shock | D004 | M - 4 |
| | during inspection or repair. | 0002 | L-3 |
| | | D022 | J-2 |
| | | D207 | F-3 |
| E | Lagoo Onigina astrica | D405 | B-2 |
| _ | ן מהאטם שאווהוא מ | D406 | ۲-3 |

D419 D011 D012 D014 D016 D019 D020

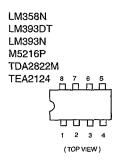
| 1 |
|------------------------|
| [PRINTED WIRING BOARD] |
| [PRINTE |
| A |
| |

| D207 | D405 | D406 | |
|------|---------------|----------------|--|
| | | | |
| | | | |
| | | | |
| | 7 | _ | |
| | 200 | בל בל בל | |
| | Civida | | |
| | MITED WILDING | | |
| | 2 | É | |

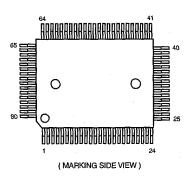




5-4. SEMICONDUCTORS



TDA9394H



IRF614-005 IRF614-037 IRF620



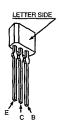
MSP3410D-PP-B8

TOP209P

2SA933AS-QRT 2SAG33ASQT 2SA933AS-RT 2SC1740S-RT



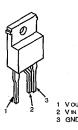




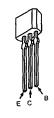
SE-135N SE135N-LF4



2SC2785-HFE



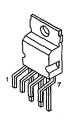




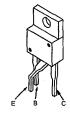
STV9379











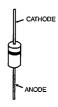
AK04-V1 AU-01Z-V1 BYD33G BYD33G-AMMO DINL20-TA DINL20-U-TA2 DINL40-U-TR2 ERB44-06TP1 EGP20G EG-1Z-V1 EL1Z

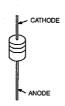
ERD28-06S

ERD28-06S ERC06-15SL FMN-G12S GP08DPKG23 RGP10GPKG23 RG15GPKG23 RG1CLF-B1 RU-3AM RU3YX-LF-C4 RU3YX-V1 RU-4AM-T3 1SS292T-77 ERA81-004TP1
ERA83-006
MTZJ-3.6A
MTZJ-T-77-2.2A
HZS9.INBZ
MTZJ-T-77-3.6B
MTZJ-T-77-5.1B
MTZJ-T-77-5.6B
MTZJ-T-77-6.8A
MTZJ-T-77-8.2B
MTZJ-T-77-7.5B
MTZJ-T-77-9.1B

MTZJ-T-77-10

MTZJ-T-72-10A MTZJ-T-72-10B MTZJ-T-77-15B MTZJ-T-77-33A MTZJ-7.5B P6KE200ASY RD3.9ES-B2 RD7.5ESB2 RD9.1ES-B3 RD10ESB2 RD15ES-T1B2 1SS119-25TD 1SS133T-77

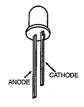




SLA-570KT3F

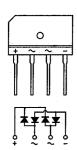
DAN202K DAN202K-T146 MA8330-TX

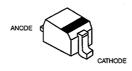




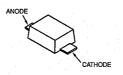
1SS355TE-17 RD12SB2 UDZS-TE-17-4.7B UDZS-TE-17-5.6B UDZS-TE-17-6.8B UDZS-TE-17-9.1B UDZ-TE-17-22B

D4SB60L-F



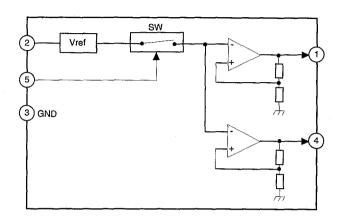


UF4005PKG23

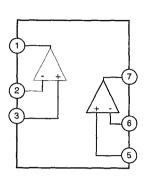


5-5 IC BLOCK DIAGRAMS

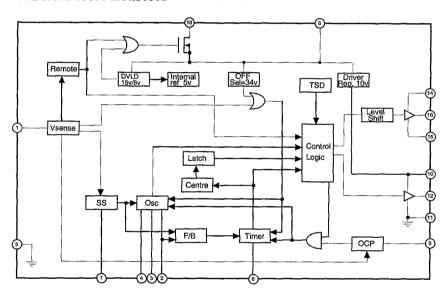
A BOARD IC604 BA41W12ST-V5



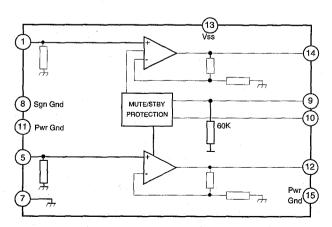
A BOARD IC401/IC531 LM393DT



A BOARD IC601 MCZ3001D



A BOARD IC1201 TDA7497

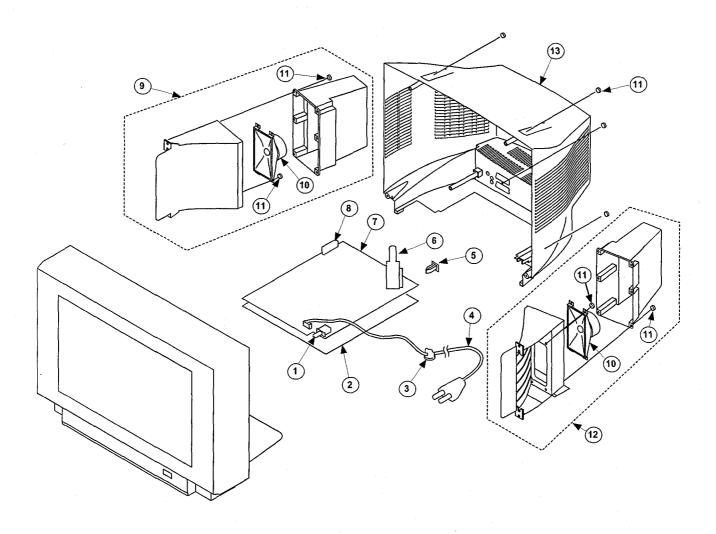


SECTION 6 EXPLODED VIEWS

NOTE:

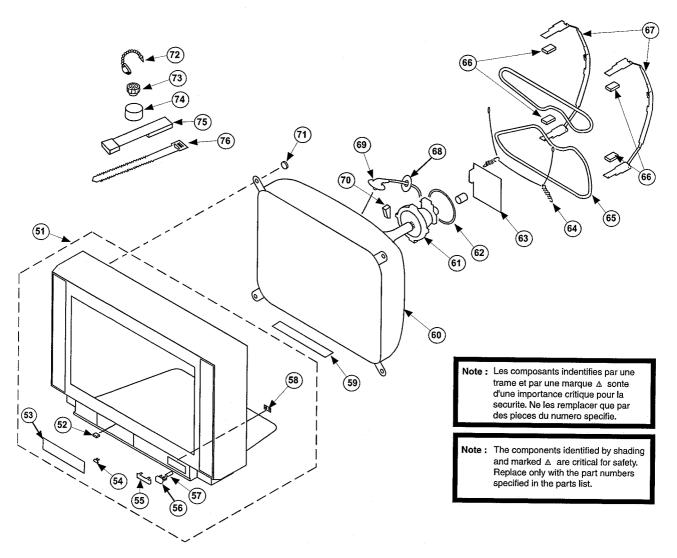
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- 6-1. CHASSIS

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.



| REF.NO. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTION | REMARK |
|------------|---------------|-----------------|-------------------------|---------|--------------|-----------------------|----------------------|
| 1 A | 1-571-433-31 | SWITCH, PUSH (A | C POWER) | 8 | 8-598-535-10 | FRONTEND (BTF-EF411) | (KV-21FX30B) |
| 2 | *4-204-143-04 | BRACKET, MAIN | | | 8-598-533-00 | FRONTEND (BTF-EC411) | (KV-21FX30E/21FX30K) |
| 3 | *4-202-531-01 | AC CORD LOCK (S | c) | 9 | A-1678-206-A | SPEAKER BOX ASSY LEFT | 10,11 |
| 4 A | 1-765-286-11 | CORD POWER | | 10 | 1-505-924-11 | SPEAKER (15X6.5CM) | |
| 5 | *4-204-517-05 | SUPPORT, FBT | | 11 | 4-039-358-01 | SCREW, (4x16) (+) BV | TAPPING |
| 6 Δ | 1-453-314-31 | TRANSFORMER ASS | Y, FLYBACK | 12 | A-1678-207-A | SPEAKER BOX ASSY RIGH | IT 10,11 |
| 7 | *A-1632-936-A | A BOARD, COMPLE | TE (KV-21FX30B) | 13 | 4-204-711-11 | COVER, REAR | |
| | *A-1632-930-A | A BOARD, COMPLE | TE (KV-21FX30E/21FX30K) | | | | |

6-2. PICTURE TUBE



| REF.NO. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTION | REMARK |
|---------|---------------|---------------------|-----------|---------|---------------|--------------------|--------------|
| 51 | X-4200-723-1 | BEZNET ASSY | 52-58 | 64 | 4-369-318-22 | SPRING, TENSION | |
| 52 | 4-047-464-01 | CATCHER, PUSH | | 65 △ | 1-419-772-11 | COIL, DEGAUSSING | |
| 53 | 4-204-901-21 | DOOR, (PAINTED) | | 66 | *4-205-248-01 | CUSHION DGC | |
| 54 | 3-703-035-12 | SHAFT LID | | 67 | 4-204-900-01 | BAND, DGC | |
| 55 | 4-204-902-11 | WINDOW, ORNAMENTAL | (PRINTED) | 68 | *4-203-022-01 | HOLDER, HV | |
| 56 | 4-204-903-11 | BUTTON, POWER (PAI | VTED) | 69 △ | 1-251-839-21 | CAP ASSY, HIGH VOI | TAGE |
| 57 | 4-204-426-01 | SPRING | | 70 | 4-203-658-01 | SPACER, DY | |
| 58 | 4-204-706-01 | GUIDE, LIGHT | | 71 | 4-203-648-01 | SCREW (5), SELF-TA | PPING |
| 59 | 4-204-666-01 | SHEET, BLOTTING | | 72 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 60 A | 8-738-836-05 | PICTURE TUBE (A51L) | T60X) | 73 | 1-452-094-11 | MAGNET, ROTATABLE | DISK; 15MM Ø |
| 61 | 8-451-505-41 | DEFLECTION YOKE (YZ | (1RSA-L) | 74 | 1-452-032-11 | MAGNET, DISK; 10MM | l Ø |
| 62 | 1-452-728-61 | COIL, NA ROTATION | RT-154) | 75 | X-4387-214-1 | PERMALLOY ASSY, CO | RRECTION |
| 63 | *A-1639-020-A | C BOARD, COMPLETE | | 76 | 3-701-007-00 | BAND, BINDING | |

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS Page A BOARD COMMON Parts List: Parts common to all models listed in this manual 43 A BOARD VARIANT Parts List: Parts that belong only to the model specified Model KV-21FX30 C BOARD COMPLETE Parts List: 50 MISCELLANEOUS: 52 ACCESSORIES AND PACKAGING MATERIALS: 52

Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.



| REF.NO. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTION | REMARK |
|--------------|---------------|---|--------------------------|--------------|------------------------------|-----------------------|-------------|
| | | oard, Complete (KV- | | C105 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V |
| *A-163 | 32-930-A A B | oard, Complete (KV- | | C106 | 1-126-933-91 | ELECT 100UF | 20.00% 16V |
| | | KV- | 21FX30K) | C112 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V |
| A Doc | val Common | Devte | <u> </u> | C211 | 1-162-970-91 | CERAMIC CHIP 0.01UF | 10.00% 25V |
| А воа | rd, Common | Parts | | C213 | 1-163-249-91 | CERAMIC CHIP 82PF | 5.00% 50V |
| | 4-203-258-02 | HOLDER, LED | | C214 | 1-163-139-91 | CERAMIC CHIP 820PF | 5.00% 50V |
| | *4-374-846-01 | COVER, CAPACITOR, CAP | | C215 | 1-163-084-91 | CERAMIC CHIP 1.5PF | 0.25PF 50V |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+ |) | C216 | | CERAMIC CHIP 100PF | 5.00% 50V |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+ |) | C217 | | CERAMIC CHIP 1.5PF | 0.25PF 50V |
| | | 10D \ | | C218 | | CERAMIC CHIP 82PF | 5.00% 50V |
| | < CAPACIT | TOK > | | 2001 | 1 160 100 01 | | F 444 F4 |
| 0001 | 1-126-933-91 | ELECT 100UF | 20.00% 16V | C221 | 1-163-109-91 1-163-117-91 | CERAMIC CHIP 47PF | 5.00% 50V |
| C002 | 1-163-233-91 | CERAMIC CHIP 18PF | 5.00% 50V | C222 | | CERAMIC CHIP 100PF | 5.00% 50V |
| C004 | 1-163-037-91 | CERAMIC CHIP 0.022UF | 10.00% 50V | C223 | 1-126-965-91 | | 20.00% 50V |
| C005 | 1-126-935-91 | | 20.00% 10V | C224 | | CERAMIC CHIP 100PF | 5.00% 50V |
| C006 | | CERAMIC CHIP 18PF | 5.00% 50V | C225 | 1-126-157-91 | ELECT 10UF | 20.00% 16V |
| 2007 | 1_160 040 01 | CERAMIC CHIP 47PF | E 0.00 E 017 | C226 | 1-164-004-91 | CERAMIC CHIP 0.1UF | 10.00% 25V |
| 2007 | | CERAMIC CHIP 0.1UF | 5.00% 50V 10.00% 25V | C227 | 1-163-117-91 | CERAMIC CHIP 100PF | 5.00% 50V |
| 2010 | | CERAMIC CHIP 0.47UF | 10.00% 25V 16V | C228 | 1-126-965-91 | | 20.00% 50V |
| 2010 | | CERAMIC CHIP 0.470F | 16V 10.00% 50V | C229 | 1-163-017-91 | CERAMIC CHIP 0.0047UF | 10.00% 50V |
| C012 | 1-103-003-91 | | 20.00% 50V | C230 | 1-164-336-91 | CERAMIC CHIP 0.33UF | 25V |
| | | | | C232 | 1-126-157-91 | ELECT 10UF | 20.00% 16V |
| :013 | 1-162-970-11 | | 10.00% 25V | C233 | 1-164-004-91 | | 10.00% 25V |
| 014 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V | C234 | | CERAMIC CHIP 0.47UF | 10.00% 16V |
| 015 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V | C235 | 1-164-005-91 | | 25V |
| 018 020 | | CERAMIC CHIP 0.01UF CERAMIC CHIP 0.1UF | 10.00% 25V 10.00% 25V | C236 | 1-126-157-91 | | 20.00% 16V |
| JUZU | 1-104-004-31 | CERAMIC CHIP V.10F | 10.00% 250 | 0027 | 1 106 065 01 | TIT TION COURT | 00 000 5011 |
| 2021 | 1-163-037-91 | CERAMIC CHIP 0.022UF | 10.00% 50V | C237 | 1-126-965-91 | | 20.00% 50V |
| 022 | 1-126-935-91 | ELECT 470UF | 20.00% 10V | C238 | 1-163-117-91 | CERAMIC CHIP 100PF | 5.00% 50V |
| C025 | 1-126-935-91 | ELECT 470UF | 20.00% 16V | C239 C242 | 1-126-157-91 1-163-009-91 | | 20.00% 16V |
| C026 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V | C242 | | | 10.00% 50V |
| 027 | 1-164-004-91 | CERAMIC CHIP 0.1UF | 10.00% 25V | C243 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| 028 | 1_163_000_01 | CERAMIC CHIP 0.001UF | 10.00% 50V | C401 | 1-126-964-91 | | 20.00% 50V |
| 030 | | CERAMIC CHIP 0.001UF | 10.00% 50V | C404 | | CERAMIC CHIP 0.01UF | 10.00% 25V |
| 2033 | | CERAMIC CHIP 0.001UF | 10.00% 50V | C407 | | CERAMIC CHIP 1UF | 16V |
| C035 | | CERAMIC CHIP 0.001UF | | C408 | | CERAMIC CHIP 0.22UF | 10% 16V |
| 2035 2036 | | CERAMIC CHIP 0.001UF | 10.00% 50V 10.00% 50V | C409 | 1-126-964-91 | ELECT 10UF | 20.00% 50V |
| | | | | C410 | 1-162-970-11 | CERAMIC CHIP 0.01UF | 10.00% 25V |
| 2037 | 1-136-244-11 | | 2.00% 50V | C411 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| 038 | | CERAMIC CHIP 0.1UF | 25V | C412 | | CERAMIC CHIP 1UF | 16V |
| 2039 | | CERAMIC CHIP 2.2UF | 16V | C414 | | CERAMIC CHIP 1UF | 167 |
| 040 | | CERAMIC CHIP 0.0047UF | 10.00% 50V | C415 | | CERAMIC CHIP 1UF | 16V |
| C042 | 1-163-017-91 | CERAMIC CHIP 0.0047UF | 10.00% 50V | | | | |
| 043 | 1-163-037-91 | CERAMIC CHIP 0.022UF | 10.00% 50V | C416 | 1-126-964-91 | | 20.00% 50V |
| C044 | | CERAMIC CHIP 1UF | 16V | C417 | | CERAMIC CHIP 0.01UF | 10.00% 25V |
| 045 | | CERAMIC CHIP 0.22UF | 10.00% 16V | C418 | | CERAMIC CHIP 0.1UF | 10.00% 25V |
| 2046 | | CERAMIC CHIP 0.022UF | 10.00% 50V | C419 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| C047 | 1-126-935-91 | | 20.00% 16V | C423 | 1-127-715-91 | CERAMIC CHIP 0.22UF | 10% 16V |
| | | | 40.00 | C424 | 1-163-009-91 | CERAMIC CHIP 0.001UF | 10.00% 50V |
| C053 | | CERAMIC CHIP 0.1UF | 10.00% 25V | C426 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| 2055 | | LEAD, JUMPER (5.0MM) | | C427 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| 100 | 1-126-933-91 | | 20.00% 16V | C428 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| 103 | 1-126-965-91 | ELECT 22UF | 20.00% 50V | C429 | | CERAMIC CHIP 0.001UF | 10.00% 50V |
| | | | | | | | - · · · · · |



| REF.N | O. PART.NO | DESCRIPT | 'ION | F | REMARK | REF.NO. | PART.NO | DESCRIPT | TION | | OTHER DIV |
|---|----------------|---------------|-----------|--------|--|----------|---------------|--------------|------------|--------|-------------|
| a400 | | | | - | | IILI JIO | raniato | DESCRIP | IIUN | | REMARK |
| C430 | 1-102-114-9 | | 470PF | 10.0 | 0% 50V | C605 | 1-111-036-9 | LELECT | 470UF | 20.0 | 0% 16V |
| C435 | | 1 CERAMIC CH | | 10.0 | 0% 50V | C606 | 1-125-991-13 | ELECT | 180UF | 20% | 450V |
| C436 | | 1 CERAMIC CH | | 10.0 | 0% 50V | C607 | 1-126-964-91 | ELECT | 10UF | | 0% 50V |
| C437 | | 1 CERAMIC CH | | | 16V | C608 | 1-126-963-91 | | 4.7UF | | 0% 50V |
| C438 | 1-164-346-9 | 1 CERAMIC CH | IP 1UF | | 16V | C610 | 1-126-941-91 | | 470UF | | |
| | | | | | | 1 | | 22201 | 17005 | 20.0 | 0% 25V |
| C445 | 1-126-964-9 | 1 ELECT | 10UF | 20.00 | 0% 50V | C611 | 1-163-009-91 | CERAMIC CH | TD 0 00100 | 10.0 | |
| C446 | 1-126-964-9 | 1 ELECT | 10UF | | 0% 50V | C612 | | | | | 0% 50V |
| C447 | 1-162-970-1 | 1 CERAMIC CHI | | |)% 25V | C613 | 1-104-571-91 | | 0.0015UF | | 0% 2KV |
| C449 | | 1 CERAMIC CHI | | 10% | 76 25V | | 1-104-571-91 | | 0.0015UF | 10.00 | 0% 2KV |
| C501 | 1-126-968-91 | | 100UF | |)% 50V | C614 | 1-161-964-51 | | 0.0047UF | | 250V |
| **** | 2 220 300 3. | . 52501 | 10001 | 20.00 | 76 304 | C615 | 1-115-339-91 | CERAMIC CH | IP 0.1UF | 10.00 | 0% 50V |
| C502 | 1-163-038-01 | CERAMIC CHI | מנוו ח מי | | OFTE | | 4 44 | | | | |
| C502 | 1-126-968-91 | | | 00.00 | 25V | C616 | 1-165-127-91 | | 470PF | 10.00 | 0% 500V |
| C504 | | | 100UF | | % 50V | C617 | 1-165-127-91 | | 470PF | 10.00 |)% 500V |
| C504 | 1-106-220-91 | | 0.1UF | | % 100V | C618 | 1-126-949-91 | | 220UF | 20.00 |)% 35V |
| | 1-137-194-81 | | 0.47UF | | 50V | C619 | 1-164-644-51 | CERAMIC | 330PF | 10.00 | % 500V |
| C506 | 1-162-970-11 | . CERAMIC CHI | P 0.01UF | 10.00 | % 25V | C620 | 1-137-990-21 | FILM | 33000PF | 3% | 800V |
| | | | | | | | | | | | |
| C508 | 1-163-035-91 | | P 0.047UF | | 50V | C621 | 1-164-644-51 | CERAMIC | 330PF | 10.00 | % 500V |
| C509 | 1-107-364-81 | | 0.01UF | 10.00 | % 400V | C622 | 1-104-571-91 | CERAMIC | 0.0015UF | | % 2KV |
| C510 | 1-163-005-91 | CERAMIC CHI | P 470PF | 10.00 | % 50V | C623 | 1-104-571-91 | | 0.0015UF | | % 2KV |
| C513 | 1-107-662-91 | ELECT | 22UF | 20.00 | % 250V | C624 | 1-126-935-91 | | 470UF | 20.00 | |
| C515 | 1-104-666-91 | ELECT | 220UF | 20.00 | % 25V | 1 | 1-127-798-51 | | 4700PF | | |
| | | | | | | 1 | 1 111, 170 31 | CONMITT | 4/UUFE | 20.00 | 8 250V |
| C517 | 1-104-666-91 | ELECT | 220UF | 20.00 | % 25V | C626 | 1-126-967-91 | DI DOM | 4700 | | |
| C518 | 1-106-375-81 | MYLAR | 0.022UF | | % 250V | C627 | | | 47UF | 20.00 | |
| C519 | | CERAMIC CHI | | 5.00% | | C628 | 1-126-964-91 | | 10UF | 20.00 | |
| C520 | | CERAMIC CHI | | 3.00% | 25V | | 1-126-963-91 | | 4.7UF | 20.009 | |
| C524 | 1-216-295-91 | | 0.101 | | 234 | C629 | 1-165-127-91 | | 470PF | 10.009 | % 500V |
| 0021 | 1 210 233 31 | SHORT | U | | | C630 | 1-107-648-41 | ELECT | 100UF | 20.009 | % 160V |
| C525 | 1-123-024-51 | et eco | 2217111 | | 1.00 | | | | | | |
| C531 | | | 33UF | | 160V | C631 | 1-126-942-91 | | 1000UF | 20.009 | \$ 25V |
| | 1-126-964-91 | | 10UF | 20.00% | | C632 | 1-126-964-91 | | 10UF | 20.008 | 5 50V |
| C532 | 1-163-017-91 | | | 10.00% | | C633 | 1-163-009-91 | CERAMIC CHI | 0.001UF | 10.00% | 5 50V |
| C535 | | CERAMIC CHIE | | 5.00% | | C634 | 1-128-562-91 | | 47UF | 20.00% | 100V |
| C536 | 1-137-713-11 | FILM | 0.47UF | 5% | 250V | C635 | 1-136-165-81 | FILM | 0.1UF | 5.00% | 50 V |
| | | | | | | | | | • | | |
| C537 | 1-106-351-91 | | 0.0022UF | 99% | 200V | C636 | 1-136-479-41 | FILM | 0.001UF | 2.00% | 50V |
| C538 | 1-165-319-91 | CERAMIC CHIP | 0.1UF | | 50V | C637 | 1-126-967-91 | ELECT | 47UF | 20.00% | |
| C539 | 1-107-642-91 | | 3.3UF | 20.00% | 200V | C638 | 1-107-679-91 | | 10UF | 20.00% | |
| C540 | 1-137-051-91 | FILM | 0.033UF | 10.00% | 400V | C639 | 1-104-665-91 | | 100UF | 20.00% | |
| C541 | 1-106-383-91 | MYLAR | 0.047UF | 10.00% | 200V | C640 | 1-104-664-91 | | 47UF | 20.00% | |
| | | | | | | | | | 1,02 | 20.000 | 234 |
| C542 | 1-162-131-91 | CERAMIC | 220PF | 10.00% | 2KV | C641 | 1-115-785-91 | RLECT | 470UF | 20.00% | 1617 |
| C545 | 1-164-004-91 | CERAMIC CHIP | 0.1UF | 10.00% | 25V | C642 | 1-104-665-91 | | 100UF | | |
| C546 | 1-135-840-51 | | 0.036UF | 3% | 400V | C643 | 1-165-127-91 | | 470PF | 20.00% | |
| C547 | 1-115-522-21 | FILM | 1UF | 5.00% | | C645 | 1-164-004-91 | | | 10.00% | |
| C550 | 1-107-638-91 | ELECT | 33UF | 20.00% | | C648 | 1-125-782-91 | | | 10.00% | |
| | | | | 20.000 | 1007 | C040 | 1-125-762-91 | CERAMIC | 4700PF | 10.00% | 1KV |
| C552 | 1-102-212-91 | CERAMIC | 820PF | 10.00% | 500V | C649 | 1 160 000 01 | CEDANTA AUTO | A 100= | | |
| C555 | 1-117-644-31 | | 10000PF | 3.00% | | | 1-163-038-91 | | | | 25V |
| C580 | 1-162-970-11 | | | | and the second second second | C657 | 1-126-952-91 | | 1000UF | 20.00% | |
| C582 | 1-163-255-91 | | | 10.00% | en de la companya de | C1201 | 1-126-972-51 | | 1000UF | 20.00% | 50V |
| | | | | 5.00% | | C1203 | 1-535-143-61 | | (5.0MM) | | |
| C583 | 1-163-009-91 | CERAMIC CHIP | O.OOTOR | 10.00% | Συν | C1207 | 1-126-960-91 | ELECT | 1UF | 20.00% | 50V |
| acon | 1 110 000 | 48551 | | | | | | | | | |
| C600 | 1-119-888-51 | | 2200PF | 20.00% | SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS | C1209 | 1-163-033-91 | CERAMIC CHIP | 0.022UF | | 50V |
| | △ 1-136-516-12 | | 0.1UF | 20.00% | | C1210 | 1-126-960-91 | | | 20.00% | 50V |
| 200000000000000000000000000000000000000 | A 1-136-516-12 | | | 20.00% | | C1211 | 1-163-033-91 | CERAMIC CHIP | | | 50V |
| 8864571577199 | A 1-119-899-51 | | 1000PF | 20.00% | 250V | C1213 | 1-216-295-91 | | 0 | | |
| C604 | △ 1-119-899-51 | CERAMIC | 1000PF | 20.00% | 250V | C1215 | 1-126-952-91 | | | 20.00% | 35V |
| | | | | | | | | | | 000 | - |



| REF.NO. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTION | REMARK |
|--------------|---------------|--------------------------|------------|---------|--------------|---------------------|--------|
| C1218 | | CERAMIC CHIP 1UF | 10.00% 10V | D106 | | DIODE UDZSTE-175.6B | |
| C1219 | 1-104-666-91 | ELECT 220UF | 20.00% 25V | D107 | 8-719-069-55 | DIODE UDZSTE-175.6B | |
| C1221 | 1-115-339-91 | CERAMIC CHIP 0.1UF | 10.00% 50V | D207 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| C1223 | 1-163-001-91 | CERAMIC CHIP 220PF | 10.00% 50V | D210 | 8-719-069-55 | DIODE UDZSTE-175.6B | |
| C1227 | 1-163-001-91 | CERAMIC CHIP 220PF | 10.00% 50V | D211 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| C1228 | 1-126-952-91 | ELECT 1000UF | 20.00% 35V | D212 | 8-719-914-43 | DIODE DAN202K | |
| C1229 | 1-163-001-91 | CERAMIC CHIP 220PF | 10.00% 50V | D228 | 8-719-069-55 | DIODE UDZSTE-175.6B | |
| C1230 | 1-163-001-91 | CERAMIC CHIP 220PF | 10.00% 50V | D235 | 8-719-069-55 | DIODE UDZSTE-175.6B | |
| C1235 | 1-126-960-91 | ELECT 1UF | 20.00% 50V | D236 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| C1236 | 1-126-960-91 | ELECT 1UF | 20.00% 50V | D239 | 8-719-069-60 | DIODE UDZSTE-179.1B | |
| | < CONNECT | for > | | D402 | 8-719-081-98 | DIODE MM3Z6V8T1 | |
| | | | | D403 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | |
| CN001 | *1-564-508-51 | PLUG, CONNECTOR 5P | | D404 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| CN003 | *1-564-510-51 | PLUG, CONNECTOR 7P | | D405 | 8-719-081-98 | DIODE MM3Z6V8T1 | |
| CN501 | | CONNECTOR PIN (DY) | | D406 | 8-719-081-98 | DIODE MM3Z6V8T1 | |
| CN506 | 1-695-915-21 | • • | | | | | |
| CN508 | | PLUG, CONNECTOR 5P | | D407 | 8-719-081-98 | DIODE MM3Z6V8T1 | |
| | | , | | D408 | | DIODE DTZ-TT11-6.8B | |
| CN601 | 1-580-843-11 | PIN, CONNECTOR (POWER) | | D410 | | DIODE DTZ-TT11-6.8B | |
| CN602 | | PIN, CONNECTOR (5MM PITC | CH) 3P | D411 | | DIODE DTZ-TT11-6.8B | |
| CN603 | | PIN, CONNECTOR (5MM PITC | | D412 | | DIODE MM3Z6V8T1 | |
| CN604 | | TAB (CONTACT) | , | | | | |
| CN1201 | | PLUG, CONNECTOR 4P | | D413 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | |
| U | 2 333 333 33 | , | | D414 | | DIODE MM3Z6V8T1 | |
| | < DIODE > | • | | D418 | | DIODE UDZSTE-179.1B | |
| | , 22452 , | | | D419 | | DIODE RB721Q | |
| D001 | 8-719-069-55 | DIODE UDZSTE-175.6B | | D420 | | DIODE MM3Z6V8T1 | |
| D002 | | DIODE UDZSTE-175.6B | | | 0 725 002 50 | 51055 12.520 (CII | |
| D003 | | DIODE RD3.6ES-B2 | | D421 | 8-719-049-26 | DIODE RB721Q | |
| D004 | | DIODE SEL1210S-D | | D422 | | DIODE DTZ-TT11-6.8B | |
| D005 | | DIODE HZS9.1NB2 | | D423 | | DIODE MM3Z6V8T1 | |
| | | | | D424 | | DIODE UDZSTE-179.1B | |
| D006 | 8-719-109-89 | DIODE RD5.6ESB2 | | D427 | | DIODE MM3Z12VT1 | |
| D007 | | DIODE UDZSTE-175.6B | | | | J10J4 12.001E711 | |
| D008 | | DIODE BAS316-115 | | D428 | 8-719-978-33 | DIODE DTZ-TT11-6.8B | • |
| D010 | | DIODE BAS316-115 | | D429 | | DIODE DTZ-TT11-6.8B | |
| D011 | | DIODE BAS316-115 | | D435 | | DIODE UDZSTE-179.1B | |
| | J .25 013 30 | | | D436 | | DIODE UDZSTE-179.1B | |
| D012 | 8-719-929-15 | DIODE HZS9.1NB2 | | D501 | 8-719-908-03 | | |
| D012 | | DIODE RD3.6ES-B2 | | -502 | J .25 500 VJ | | |
| D014 | 1-216-295-91 | | | D502 | 8-719-081-90 | DIODE PDZ22B-115 | |
| D014 | | DIODE RD5.6ESB2 | | D503 | | DIODE UDZSTE-175.6B | |
| D018 | | DIODE RD3.6ES-B2 | | D504 | | DIODE BAS316-115 | |
| | | | | D505 | | DIODE MMDL914T1 | |
| D019 | 8-719-978-33 | DIODE UDZSTE-176.8B | | D506 | 8-719-908-03 | | |
| D020 | | DIODE RD5.6ESB2 | | 2300 | 0 ,45 500 05 | -100# AT AAR | |
| D020 | | DIODE DTZ-TT11-6.8B | | D507 | 8-719-070-59 | DIODE PDZ6.8B-115 | |
| D021 | | DIODE UDZSTE-175.6B | | D512 | 8-719-302-43 | | |
| D022 | | DIODE UDZSTE-175.6B | | D512 | 8-719-302-43 | | |
| | 0 .15 005 05 | | | D514 | 8-719-302-43 | | |
| D036 | 8-719-069-55 | DIODE UDZSTE-175.6B | | D534 | 8-719-908-03 | | |
| D050 D051 | | DIODE MM3Z6V8T1 | | 7557 | 0 113-300-03 | PIONE GEOOD | |
| D101 | | DIODE DTZ33B | | D535 | 0_710_000_02 | ከተለከም ሮክሰዕካ | |
| D101 | | DIODE MM3Z6V8T1 | | D536 | 8-719-908-03 | DIODE ERC06-15S | |
| D103 | | DIODE UDZSTE-175.6B | | D536 | | | |
| D104 | 0-113-003-33 | 0100F 00491F-113.0B | | | | DIODE PDZ9.1B-115 | |
| D105 | 0_710_000_55 | DIADE HOROWE 175 CD | | D538 | 8-719-908-03 | | |
| D105 | 8-113-063-55 | DIODE UDZSTE-175.6B | | D539 | 8-119-928-08 | DIODE ERD28-08S | |



| REF.NO. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTION | ON | REMARK | |
|--------------|------------------------------|----------------------------------|--------|--------------|------------------------------|--------------|----------------|--|--|
| D541 | 1-216-295-91 | SHORT 0 | | | < IC > | | | ************************************** | |
| D573 | 8-719-082-00 | DIODE MM3Z4V7T1 | | | 1.07 | | | | |
| D601 | | DIODE D4SB60L | | IC001 | 8-759-837-20 | IC TDA9394H | /N1 /4 /0210 | | |
| D602 | | DIODE 1SS119-25 | | IC002 | | HYB IC SBX | | | |
| D604 | 8-719-083-94 | DIODE FUF4005 | | IC004 | | IC M24C08-W | | | |
| | | | | IC201 | | IC MSP3410G | | | |
| D608 | 8-719-063-70 | DIODE D1NL20U | | IC401 | | IC LM393DT | | | |
| D610 | | DIODE RD15ES-B2 | | | | | | | |
| D611 | 8-719-991-33 | DIODE 1SS133T-77 | | IC501 | 8-759-339-59 | IC TDA8177 | | | |
| D612 | | DIODE 1SS133T-77 | | IC531 | | IC LM393DT | | | |
| D613 | 8-719-911-19 | DIODE 1SS119-25 | | IC601 | | IC MCZ3001D | | | |
| | | | | IC602 | | IC SE135N-LE | 74 | | |
| D614 | 8-719-077-76 | DIODE D2SB60A-F04 | | IC604 | | IC BA41W12ST | | | |
| D615 | | DIODE HZS9.NB2 | | 1 | | | | | |
| D618 | | DIODE D2S4MTA1 | | IC608 | 8-759-591-02 | IC L78L33AB2 | -AP | | |
| D619 | | DIODE D2S4MTA1 | | IC609 | 8-759-468-89 | IC TOP209P | | | |
| D620 | 8-719-109-85 | DIODE RD5.1ESB2 | | IC1201 | 8-759-831-57 | IC TDA7495S | | | |
| 0621 | | DIODE RD5.1ESB2 | | | < JACK > | | | | |
| D623 | | DIODE 1SS119-25 | | | | | | | |
| 0624 | | DIODE D1NL20U | | J401 | | CONNECTOR, D | | | |
| 625 | | DIODE D4SBL20UF1 | | J402 | | JACK, PIN 3P | | | |
| 627 | 8-719-063-70 | DIODE DINESOU | | J404 | | JACK, PIN 2P | | | |
| 628 | 0710 000 40 | DIODE DOWNAAR | | J1200 | 1-568-267-11 | JACK | | | |
| 629 | | DIODE P6KE200ASY | | | | | | | |
| 1631 | 8-719-083-94 8-719-021-63 | DIODE FUF4005 DIODE MTZJ-7.5B | | | < COIT > | | | | |
| 632 | 8-719-921-63 8-719-063-70 | | | 1 | | | | | |
| 1632 1633 | | DIODE RD3.6ES-B2 | | L001 | 1-408-611-21 | | 47UH | | |
| . 303 | 0 119 109-09 | 2200B NDJ,0E0-52 | | L003 | 1-412-006-41 | | 10UH | | |
| 638 | 8-719-083-92 | DIODE YG802C09RF122 | | L004 L006 | 1-408-611-21 | | 47UH | | |
| 640 | | DIODE MTZJ-7.5B | | L006 | 1-408-611-21 | | 47UH | | |
| 649 | | DIODE WIZG-7.5B | | 1027 | 1-216-295-91 | SHORT | 0 | | |
| 1204 | | DIODE UDZSTE-175.6B | | L101 | 1_412_524 41 | THOUGHOR | E Crrr | | |
| 1205 | | DIODE PDZ22B-115 | | L101 | 1-412-534-41 1-408-611-21 | | 56UH | | |
| - | | | | L103 | 1-408-611-21 | | 47UH | | |
| 1230 | 8-719-074-43 | DIODE BAS316-115 | | L104 | 1-412-002-41 | | 4.7UH | | |
| - | | | | L201 | 1-412-002-41 | | 4.7UH 8.2UH | | |
| | < FUSE > | | | | | | 0.40π | | |
| C01 | 1 506 600 60 | | | L202 | 1-408-591-21 | | 1UH | | |
| | | FUSE (H.B.C.) 5A/250V | | L203 | 1-408-602-21 | | 8.2UH | | |
| | ^1-555-725-11 | HOLDER, FUSE (F601) | | L205 | 1-408-591-21 | | 1UH | | |
| | / 8800785 | ממאת א | | L206 | 1-535-143-61 | | (5.0MM) | | |
| | < FERRITE 1 | SEAU > | | L207 | 1-408-591-21 | INDUCTOR | 1UH | | |
| 3601 | 1-410-397-31 | | | L401 | 1-410-993-42 | | 1UH | | |
| 3602 | 1-410-397-31 | | | L403 | 1-410-993-42 | | 1UH | | |
| 604 | 1-410-397-31 | | | L404 | 1-410-993-42 | | 1UH | | |
| 3605 | 1-410-397-31 E | | | L405 | 1-535-143-61 | | (5.0MM) | | |
| 3606 | 1-412-911-11 | FERRITE OUH | | L406 | 1-535-143-61 | LEAD, JUMPER | (5.0MM) | | |
| 3607 | 1-412-911-11 E | FERRITE OUH | | L410 | 1-216-025-91 | | 100 5% | 1/10W | |
| | | | | L430 | 1-412-002-41 | | 4.7UH | | |
| | < FILTER > | | | L446 | 1-410-993-42 | | 1UH | | |
| *** | | | | L448 | 1-410-993-42 | | 1UH | | |
| 201 | 1-239-803-21 F | 'ILTER, EMI | | L501 | 1-414-187-31 | INDUCTOR | 47UH | | |
| | | | | L502 | 1-412-531-41 | TNDHC#OD | 33UH | | |
| | | | | | | | | | |



| ref.no. | PART.NO | DESCRIPTION | REMARK | REF.NO. | PART.NO | DESCRIPTIO | N | | REMARK |
|---------|--------------|-----------------------|----------------|----------|--------------|------------|------|----------|----------|
| 504 | 1-535-143-61 | LEAD, JUMPER (5.0MM |) | | < RESISTO |)R > | | | |
| 505 | 1-412-533-41 | INDUCTOR 47UH | | | | | | | |
| 507 | 1-412-533-41 | INDUCTOR 47UH | | JR4 | 1-216-295-91 | SHORT | 0 | | |
| 32 | 1-412-553-41 | INDUCTOR 3.3MH | • | JR7 | 1-216-295-91 | SHORT | 0 | | |
| 33 | 1-406-989-11 | INDUCTOR 10MH | | JR9 | 1-216-295-91 | SHORT | 0 | | |
| | | | | JR10 | 1-216-295-91 | SHORT | 0 | | |
| 35 | 1-459-111-21 | INDUCTOR 10MH | | JR16 | 1-216-296-91 | SHORT | 0 | | |
| 37 | | COIL, HORIZONTAL LIN | EARITY | ĺ | | | | | |
| 538 | | COIL, WITH CORE | | JR21 | 1-216-295-91 | SHORT | 0 | | |
| 601 | 1-408-603-21 | • | | JR24 | 1-216-295-91 | | Ö | | |
| 502 | 1-408-611-21 | | | JR25 | 1-216-295-91 | | Ö | | |
| | | | | JR204 | 1-216-296-91 | | 0 | | |
| 503 | 1-535-143-61 | LEAD, JUMPER (5.0MM | ١ | JR206 | 1-216-295-91 | | 0 | | |
| 1200 | | LEAD, JUMPER (5.0MM | • | DAZOO | 1 210 255 51 | DHORI | ٧ | | |
| 1201 | | LEAD, JUMPER (5.0MM | • | JR209 | 1-216-295-91 | CHOD# | 0 | | |
| 1201 | | | • | JR210 | 1-216-295-91 | | 0 | | |
| .203 | 1-333-143-01 | LEAD, JUMPER (5.0MM | 1 | 1 | 1-216-295-91 | | | | |
| | A DITORIO A | MATIDI ED N | | JR211 | | | 0 | | |
| | < PHOTO (| OUTLEK / | | JR213 | 1-216-295-91 | | 0 | | |
| C01 | 5 546 65 C | TO MOUNTAGE | | JR401 | 1-216-295-91 | SHORT | 0 | | |
| 1601 / | 8-749-016-21 | IU TUETIIOMG | | | 4 044 005 04 | | | | |
| | | | | JR409 | 1-216-295-91 | | 0 | | |
| | < IC LINE | ; > | | JR418 | 1-216-296-91 | | 0 | | |
| | | | | JR419 | 1-216-295-91 | | 0 | | |
| 31201 | 1-533-597-31 | LINK, IC | | JR423 | 1-216-296-91 | | 0 | | |
| | | | | JR508 | 1-216-296-91 | SHORT | 0 | | |
| | < TRANSIS | TOR > | | . j | | | | | |
| | | | | JR516 | 1-216-296-91 | SHORT | 0 | | |
| 002 | 8-729-027-56 | TRANSISTOR DTC143TKA | -T146 | JR517 | 1-216-296-91 | SHORT | 0 | | |
| 113 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | JR601 | 1-216-295-91 | SHORT | 0 | | |
|)49 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | JR609 | 1-216-295-91 | SHORT | 0 | | |
| 202 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | JR610 | 1-216-296-91 | SHORT | 0 | | |
| 203 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | 1 | | | | | |
| | | | | JR1209 | 1-216-295-91 | SHORT | 0 | | |
| 212 | 8-729-422-33 | TRANSISTOR 2SD601A-Q | -TX |) | | | | | |
| 401 | 8-729-026-49 | TRANSISTOR 2SA1037AK | -T146 | R003 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| 409 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | R004 | 1-216-033-91 | | 220 | 5% | 1/10W |
| 111 | | TRANSISTOR 2SC1623-L | | R005 | 1-216-041-91 | | 470 | 5% | 1/10W |
| 532 | | TRANSISTOR IRF614-03 | | R006 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| | | | | R007 | 1-216-025-91 | | 100 | 5% | 1/10W |
| 533 | 8-729-051-82 | TRANSISTOR BU4508DX- | ON5210 | 1.54. | | | | | _,, |
| 535 | | TRANSISTOR IRF614-03 | | R008 | 1-216-025-91 | מזעייים | 100 | 5% | 1/10W |
| 601 | | TRANSISTOR 2SA1037AK | | R009 | 1-216-049-91 | | 1K | 5% | 1/10W |
| 502 | | TRANSISTOR 2SC2785-H | | R010 | 1-216-049-91 | | 1K | 5% | 1/10W |
| | | TRANSISTOR DTA144ESA | | R011 | 1-216-295-91 | | 0 | Jo | 1/104 |
| 603 | 8-129-029-38 | TRANSISTOR DIAL44ESA | | 1 | 1-216-293-91 | | | E 0. | 1 /1 077 |
| cn4 | 0 700 020 02 | MDANGTOMOD DMG1 A4EGA | | R012 | 1-210-121-91 | KES-CHIP | 1M | 5% | 1/10W |
| 604 | | TRANSISTOR DTC144ESA | | 2011 | 1 016 065 04 | DEG 6775 | | E0 | 1 /1 027 |
| 606 | | TRANSISTOR 2SK2640-0 | | R014 | 1-216-065-91 | | 4.7K | | 1/10W |
| 607 | | TRANSISTOR 2SK2640-0 | | R017 | 1-216-025-91 | | 100 | 5% | 1/10W |
| 808 | | TRANSISTOR 2SC1623-L | | R018 | 1-208-820-91 | | | | 1/10W |
| 509 | 8-729-026-49 | TRANSISTOR 2SA1037AK | -T146 | R020 | 1-216-077-91 | | 15K | 5% 5^ | 1/10W |
| | | | | R022 | 1-216-089-91 | RES-CHIP | 47K | 5% | 1/10W |
| L210 | | TRANSISTOR 2SC1623-L | | | | | | | |
| 211 | 8-729-120-28 | TRANSISTOR 2SC1623-L | 5L6 | R023 | 1-216-031-91 | | 180 | 5% | 1/10W |
| 1230 | 8-729-027-56 | TRANSISTOR DTC143TKA | -T146 | R024 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| 231 | 8-729-027-56 | TRANSISTOR DTC143TKA | -T146 | R025 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| 1232 | 8-729-026-50 | TRANSISTOR 2SA1037AK | -T146-QR | R026 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| | • | | . - | R027 | 1-216-025-91 | | 100 | 5% | 1/10W |
| | | | | | | | | | • |
| 1233 | 8-729-026-50 | TRANSISTOR 2SA1037AK | -T146-OR | , | | | | | |



| REF.NO. | PART.NO | DESCRIPTION | ٧ | | REMARK | REF.NO. | PART.NO | DESCRIPTION | | | REMARK |
|--------------|--------------|-------------|-----------|-------------|---------|---------|--------------|-------------|----------|----------|----------|
| R029 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W | R212 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| R030 | 1-216-821-91 | RES-CHIP | 1K | 5% | 1/16W | R213 | 1-216-081-91 | RES-CHIP | 22K | 5% | 1/10W |
| R031 | 1-216-061-91 | | 3.3K | 5% | 1/10W | R214 | 1-216-041-91 | RES-CHIP | 470 | 5% | 1/10W |
| R032 | 1-216-061-91 | | 3.3K | | 1/10W | R215 | 1-216-037-91 | RES-CHIP | 330 | 5% | 1/10W |
| R033 | 1-216-073-91 | | 10K | 5% | 1/10W | R216 | 1-216-097-91 | | 100K | | 1/10W |
| 1.000 | | | | | 2,20 | | | | | •• | -,, |
| R034 | 1-216-121-91 | RES-CHIP | 1M | 5% | 1/10W | R217 | 1-216-222-91 | RES-CHIP | 10K | 5% | 1/8W |
| R035 | 1-216-101-91 | RES-CHIP | 150K | 5% | 1/10W | R220 | 1-216-031-91 | RES-CHIP | 180 | 5% | 1/10W |
| R036 | 1-216-083-91 | RES-CHIP | 27K | 5% | 1/10W | R221 | 1-216-190-91 | RES-CHIP | 470 | 5% | 1/8W |
| R039 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | R232 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R040 | 1-216-033-91 | RES-CHIP | 220 | 5% | 1/10W | R233 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| | | | | | | | | | | | |
| R041 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R234 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| R042 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R235 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| R044 | 1-216-073-91 | RES-CHIP | 10K | - 5% | 1/10W | R236 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| R045 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R238 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R046 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R246 | 1-260-107-91 | CARBON | 4.7K | 5% | 1/2W |
| | | | | | | | | | | | |
| R047 | 1-216-025-91 | | 100 | 5% | 1/10W | R248 | 1-249-429-91 | | 10K | 5% | 1/4W |
| R048 | 1-216-073-91 | | 10K | 5% | 1/10W | R249 | 1-216-097-91 | | 100K | 5% | 1/10W |
| R049 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W | R250 | 1-216-230-91 | RES-CHIP | 22K | 5% | 1/8W |
| R050 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R251 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| R051 | 1-216-295-91 | SHORT | 0 | | | R252 | 1-216-069-91 | RES-CHIP | 6.8K | 5% | 1/10W |
| | | | | | 4.44.00 | | | | | | |
| R053 | 1-216-077-91 | | 15K | 5% | 1/10W | R401 | 1-410-993-42 | | 1UH | | |
| R055 | 1-216-025-91 | | 100 | 5% | 1/10W | R402 | 1-216-041-91 | | 470 | 5% | 1/10W |
| R056 | 1-216-081-91 | | 22K | 5% | 1/10W | R403 | 1-216-113-91 | | 470K | 5% | 1/10W |
| R060 | 1-216-025-91 | | 100 | 5% | 1/10W | R404 | 1-216-113-91 | | 470K | 5% | 1/10W |
| R061 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R405 | 1-216-864-91 | SHORT | 0 | | |
| R062 | 1-216-077-91 | סקפ_רטדם | 15K | 5% | 1/10W | R406 | 1-216-296-91 | enopu. | 0 | | |
| R063 | 1-216-071-91 | | 3.3K | | 1/10W | R407 | 1-216-230-31 | | | EO. | 1 /1 012 |
| | 1-216-061-91 | | | | · · | | | | 75 75 | 5% =° | 1/10W |
| R064 R065 | 1-216-295-91 | | 6.8K 0 | 24 | 1/10W | R408 | 1-216-022-91 | | 75 | 5% =° | 1/10W |
| | | | - | E 0. | 1/100 | R409 | 1-216-025-91 | | 100 | 5% =° | 1/10W |
| R066 | 1-216-053-91 | KES-CHIP | 1.5K | 28 | 1/10W | R410 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W |
| R067 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R411 | 1-216-022-91 | RES-CHIP | 75 | 5% | 1/10W |
| R070 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R412 | 1-216-025-91 | | 100 | 5% | 1/10W |
| R071 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W | R413 | 1-216-113-91 | RES-CHIP | 470K | 5% | 1/10W |
| R072 | 1-216-295-91 | | 0 | | · | R414 | 1-216-022-91 | | 75 | 5% | 1/10W |
| R074 | 1-216-073-91 | | 10K | 5% | 1/10W | R415 | 1-216-022-91 | | 75 | 5% | 1/10W |
| | | | | | | | | | | | -, |
| R090 | 1-216-057-91 | RES-CHIP | 2.2K | 5% | 1/10W | R416 | 1-216-027-91 | RES-CHIP | 120 | 5% | 1/10W |
| R092 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R417 | 1-216-113-91 | RES-CHIP | 470K | 5% | 1/10W |
| R094 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R418 | 1-216-113-91 | RES-CHIP | 470K | 5% | 1/10W |
| R095 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W | R419 | 1-216-022-91 | RES-CHIP | 75 | 5% | 1/10W |
| R096 | 1-216-025-91 | RES-CHIP | 100 | 5% | 1/10W | R420 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |
| | | | | | | | | | | | |
| R101 | 1-216-093-91 | | 68K | 5% | 1/10W | R421 | 1-216-049-91 | | 1K | 5% | 1/10W |
| R102 | 1-216-097-91 | | 100K | 5% | 1/10W | R422 | 1-216-864-91 | | 0 | | |
| R104 | 1-216-295-91 | | 0 | | | R423 | 1-216-113-91 | | 470K | | 1/10W |
| R105 | 1-414-813-21 | | OUH | | | R424 | 1-216-113-91 | | 470K | | 1/10W |
| R106 | 1-215-900-51 | METAL OXIDE | 22K | 5% | 2W | R425 | 1-216-085-91 | RES-CHIP | 33K | 5% | 1/10W |
| R107 | 1-216-025-91 | מדני. מנודה | 100 | E 0. | 1/100 | DAGE | 1 010 070 04 | DEC CUES | 1 ^** | FC | 1 /1 000 |
| | | | 100 | 5% = c | 1/10W | R426 | 1-216-073-91 | | 10K | 5% | 1/10W |
| R108 | 1-216-025-91 | | 100 | 5% 5% | 1/10W | R427 | 1-216-113-91 | | | 5% | 1/10W |
| R201 | 1-216-025-91 | | 100 | 5% =°. | 1/10W | R428 | 1-216-073-91 | | 10K | 5% | 1/10W |
| R202 | 1-216-073-91 | | 10K | 5% = 0. | 1/10W | R429 | 1-216-089-91 | | 47K | 5% | 1/10W |
| R211 | 1-216-081-91 | KES-CHIP | 22K | 5% | 1/10W | R430 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W |



| REF.NO. | PART.NO | DESCRIPTI | ΛN | - | DEW ADV | | | | | | |
|---------|------------------------------|-------------------------------|-------------|------------|----------------|-------------------------|------------------------------|---|---|-----------|----------------|
| R431 | | | | | REMARK | REF.NO. | PART.NO | DESCRIPTIO | Ŋ | | REMARK |
| | 1-216-073-91 | | 10K | 5% | 1/10W | R532 | 1-216-085-91 | RES-CHIP | 33K | 5% | 1/10W |
| R433 | 1-216-073-91 | | 10K | 5% | 1/10W | R533 | 1-216-081-91 | | 22K | 5% | 1/10W |
| R434 | 1-216-073-91 | | 10K | 5% | 1/10W | R534 | 1-216-117-91 | RES-CHIP | 680K | 58 | 1/10W |
| R435 | 1-216-295-91 | - | 0 | | | R535 | 1-216-097-91 | RES-CHIP | 100K | 5% | 1/10W |
| R438 | 1-216-022-91 | RES-CHIP | 75 | 5% | 1/10W | R538 | 1-535-143-71 | LEAD, JUMPER | (7.5M | M) | |
| R439 | 1-216-022-91 | RES-CHIP | 75 | 5% | 1/10W | R539 | 1-215-892-81 | METAL OXIDE | 1K | 5% | 2W |
| R440 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W | R540 | 1-215-887-21 | | 150 | 5% | 2W |
| R441 | 1-216-051-91 | RES-CHIP | 1.2K | 5% | 1/10W | R542 | 1-216-121-91 | | 1M | 5% | 1/10W |
| R442 | 1-216-085-91 | RES-CHIP | 33K | 5% | 1/10W | R543 | 1-216-065-91 | | 4.7K | | 1/10W |
| R443 | 1-216-073-91 | RES-CHIP | 10K | 5% | 1/10W | R544 | 1-216-103-91 | | 180K | | 1/10W |
| R444 | 1-216-061-91 | RES-CHIP | 3.3K | 5% | 1/10W | R545 | 1-216-129-91 | DEC OUTD | . 0.4 | FA | 1 /4 000 |
| R446 | 1-216-113-91 | | 470K | | 1/10W | R546 | | | 2.2M | | 1/10W |
| R447 | 1-216-295-91 | | 0 | 30 | 1/1011 | R547 | 1-215-920-51 | | 3.3K | | 3W |
| R448 | 1-216-113-91 | | 470K | 5& | 1/10W | R548 | 1-215-886-21 | | 100 | 5% | 2W |
| R449 | 1-216-295-91 | | 0 | J* | 1/10# | R549 | 1-212-849-61 1-216-369-21 | | 4.7 1 | 5% 5% | 1/4W 2W |
| 450 | 1 010 011 01 | | | | | | | | • | • | 411 |
| R450 | 1-216-041-91 | | 470 | 5% | 1/10W | R551 | 1-215-873-21 | METAL OXIDE | 4.7K | 5% | 1W |
| R451 | 1-216-041-91 | | 470 | 5% | 1/10W | R552 | 1-216-848-91 | RES-CHIP | 180K | 5% | 1/16W |
| R453 | 1-216-171-91 | | 75 | 5% | 1/8W | R553 | 1-249-381-91 | CARBON | 1 | 5% | 1/4W |
| 454 | 1-216-001-91 | | 10 | 5% | 1/10W | R554 | 1-216-105-91 | RES-CHIP | 220K | 5% | 1/10W |
| R455 | 1-216-295-91 | SHORT | 0 | | | R556 | 1-215-920-51 | METAL OXIDE | 3.3K | 5% | 3W |
| 460 | 1-216-049-91 | RES-CHIP | 1K | 5% | 1/10W | R557 | 1-216-065-91 | RES-CHID | 4.7K | 50 | 1/10W |
| 461 | 1-216-022-91 | RES-CHIP | 75 | 5% | 1/10W | R558 | 1-216-025-91 | | 100 | 5% | • |
| 462 | 1-216-029-91 | RES-CHIP | 150 | 5% | 1/10W | R559 | 1-249-428-91 | | 8.2K | | 1/10W |
| 501 | 1-216-091-91 | RES-CHIP | 56K | 5% | 1/10W | R560 | 1-249-429-91 | | | | 1/4W |
| 502 | 1-216-073-91 | | 10K | 5% | 1/10W | R561 | 1-216-129-91 | | 10K 2.2M | 5% 5% | 1/4W 1/10W |
| 503 | 1-215-888-21 | METAL OVER | 220 | 5% | 2W | PE CO | 1 010 110 01 | | | | |
| 504 | 1-249-385-91 | CARBON | 2.2 | 5% | 1/4W | R562 | 1-216-117-91 | | 680K | | 1/10W |
| 505 | 1-216-677-91 | METAL CHIP | 12K | | 1/4W 1/10W | R565 | 1-216-049-91 | | 1K | 5% | 1/10W |
| 506 | 1-208-796-91 | METAL CHIP | 3.9K | 0.5% | | R568 | 1-215-920-51 | | 3.3K | 5% | 3W |
| 507 | 1-216-349-51 | | 3.9k | 0.5% 5% | 1/10W 1W | R583 R589 | 1-216-081-91 1-216-295-91 | RES-CHIP SHORT | 22K 0 | 5% | 1/10W |
| FA0 | 4 046 688 04 | | | | | | | | • | | |
| 508 | 1-216-677-91 | | | | 1/10W | R591 | 1-215-892-51 | METAL OXIDE | 1K | 5% | 2W |
| | 1-208-796-91 | | | | 1/10W | R595 | 1-249-377-91 | CARBON | 0.47 | 5% | 1/4W |
| 510 | 1-216-113-91 | | 470K | | 1/10W | R600 | 1-211-964-91 | METAL CHIP | 33 | | 1/10W |
| 512 | 1-249-382-91 | | | 5% | 1/4W | R601 | 1-208-776-91 | METAL CHIP | 560 | | 1/10W |
| 514 | 1-249-377-91 | CARBON | 0.47 | 5% | 1/4W | R602 | 1-202-962-11 | | 3.3 | 5% | 10W |
| | 1-249-377-91 | CARBON | 0.47 | 5% | 1/4W | R603 | 1-220-926-21 | FUSIBLE | 0.47 | 10% | 1/2W |
| 516 | 1-214-907-81 | METAL | | 1% | 1/2W | R605 | 1-216-049-91 | | 1K | 5% | 1/2W |
| 517 | 1-215-461-91 | METAL | 47K | 1% | 1/4W | 1 months and the second | 1-202-719-91 | *************************************** | | 10% | 1/20 |
| | 1-216-059-91 | | 2.7K | | 1/10W | R608 | 1-216-073-91 | | 10K | 104 5% | 1/2m 1/10W |
| | 1-216-129-91 | | 2.2M | | 1/10W | R609 | 1-216-677-91 | | | | 1/10W 1/10W |
| 520 | 1-215-883-21 | Μ ጀም ል ፤. ሰሂ፣ከ፱ | 33 | 5% | 2W | DCIC | 1 015 104 04 | I 45 W | | | |
| | 1-216-117-91 | | 680K | | 1/10W | R610 | 1-215-481-91 | | 330K | | 1/4W |
| | 1-216-083-91 | | | 5% 5% | | R611 | 1-216-059-91 | | 2.7K | | 1/10W |
| | 1-216-057-91 | | | | 1/10W | R612 | 1-249-429-91 | 000000000000000000000000000000000000000 | anacomore e e e e e e e e e e e e e e e e e e | 5% | 1/4W |
| | 1-216-037-91 | | 2.2K 47K | 5% 5% | 1/10W 1/10W | R613 △ R615 | 1-219-720-91 1-215-385-91 | | 8.2M 33 | | 1W 1/4W |
| | | | | | | | | | | 4.0 | T/ 3U |
| | 1-216-079-91 | | | | 1/10W | R618 | 1-247-889-91 | | 270K | | 1/4W |
| | 1-216-097-91 | | 100K | | 1/10W | R619 | 1-216-065-91 | | 4.7K | 5% | 1/10W |
| | 1-216-073-91 | | | | 1/10W | R621 | 1-216-113-91 | RES-CHIP | 470K | | 1/10W |
| | 1-216-085-91 1-216-057-91 | | | | 1/10W | R622 | 1-216-073-91 | | 10K | | 1/10W |
| | 1_214_857 81 | 066 VIII | 2.2K | F 0 | 1/10W | R623 | 1-216-081-91 | | 22K | 5% | |



| REFNO | YBACK ITAL DRIVE LLIER ER (SRI) |
|--|--|
| R625 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R625 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R627 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R628 1-247-791-91 CARBON 22 5% 1/4W S002 1-692-431-21 SWITCH, TACTIL S003 1-692-431-21 SWITCH, TACTIL S003 1-692-431-21 SWITCH, TACTIL S004 1-692-431-21 SWITCH, TACTIL S004 1-692-431-21 SWITCH, TACTIL S005 1-249-417-91 CARBON IK 5% 1/4W S005 1-692-431-21 SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SW | YBACK ITAL DRIVE LLIER ER (SRI) |
| R629 1-216-073-91 RES-CHIP 10K 5% 1/10W S003 1-692-431-21 SWITCH, TACTIL S004 1-692-431-21 SWITCH, TACTIL S004 1-692-431-21 SWITCH, TACTIL S005 1-692-431-21 SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SWITCH, TACTIL S006 1-692-431-21 SWITCH, TACTIL SWITCH, T | YBACK ITAL DRIVE LLIER ER (SRI) |
| S004 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R632 1-249-417-91 CARBON 1K 5% 1/4W S005 1-692-431-21 SWITCH, TACTIL R633 1-217-625-11 METAL 0.05 10% 2W S006 1-692-431-21 SWITCH, TACTIL R635 1-260-300-71 CARBON 4.7 5% 1/2W S601 \$\(\triangle \) 1-260-300-71 CARBON 4.7 5% 1/4W S8532 1-572-707-21 SWITCH, TACTIL R636 1-249-413-91 CARBON 470 5% 1/10W S8532 1-572-707-21 SWITCH, PUSH (AC PC) R637 1-216-041-91 RES-CHIP 470 5% 1/10W S8532 1-572-707-21 SWITCH, LEVER R643 1-216-097-91 RES-CHIP 100K 0.5% 1/10W E511 \$\(\triangle \) 1-437-210-21 TRANSFORMER ASSY, FI R640 1-240-405-91 CARBON 100 5% 1/4W T531 1-437-210-21 TRANSFORMER, HORIZOT R643 1-216-089-91 RES-CHIP 47K 5% 1/10W T601 \$\(\triangle \) 1-216-097-91 RES-CHIP 10K 5% 1/10W T601 \$\(\triangle \) 1-216-099-91 RES-CHIP 10K 5% 1/10W R648 1-215-481-91 METAL CHIP 9.1K 0.5% 1/10W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-365-51 METAL CHIP 10 5% 1/10W R656 1-216-365-51 METAL CHIP 10 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-365-51 METAL CHIP 10 5% 1/10W R656 1-216-365-51 METAL CARBON 330 5% 1/2W R660 1-247-807-91 CARBON 330 5% 1/2W R660 1-247-807-91 CARBON 330 5% 1/2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1200 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R633 1-215-481-91 METAL 330K 1% 1/4W R634 1-217-625-11 METAL 0.05 10% 2W R636 1-260-300-71 CARBON 4.7 5% 1/2W R636 1-249-413-91 CARBON 4.7 5% 1/4W R637 1-216-041-91 RES-CHIP 470 5% 1/10W R639 1-208-814-91 METAL CHIP 22K 0.5% 1/10W R640 1-208-830-91 METAL CHIP 100K 0.5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/4W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R644 1-216-097-91 RES-CHIP 10K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R646 1-216-049-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 10K 5% 1/10W R648 1-215-481-91 METAL CHIP 9.1K 0.5% 1/10W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-209-262-12 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R650 1-208-780-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R656 1-216-039-81 CARBON 330 5% 1/2W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R650 1-260-093-81 CARBON 330 5% 1/2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R634 1-217-625-11 METAL 0.05 10% 2W S006 1-692-431-21 SWITCH, TACTIL R635 1-260-300-71 CARBON 4.7 5% 1/2W S601 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R635 1-260-300-71 CARBON 4.7 5% 1/2W R636 1-249-413-91 CARBON 470 5% 1/4W R637 1-216-041-91 RES-CHIP 470 5% 1/10W R639 1-208-814-91 METAL CHIP 22K 0.5% 1/10W R640 1-208-830-91 METAL CHIP 100K 0.5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/10W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R644 1-216-097-91 RES-CHIP 10K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R646 1-215-481-91 METAL CHIP 9.1K 0.5% 1/10W R647 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R648 1-215-481-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-001-91 RES-CHIP 10 0.5% 1/10W R653 1-216-073-91 RES-CHIP 10 0.5% 1/10W R654 1-216-001-91 RES-CHIP 10 0.5% 1/10W R655 1-216-030-91 RES-CHIP 10 0.5% 1/10W R656 1-216-030-91 RES-CHIP 10 0.5% 1/10W R651 1-209-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-001-91 RES-CHIP 10 0.5% 1/10W R653 1-216-030-91 RES-CHIP 10 0.5% 1/10W R654 1-216-001-91 RES-CHIP 10 0.5% 1/10W R655 1-216-030-91 RES-CHIP 10 0.5% 1/10W R650 1-247-807-91 CARBON 100 5% 1/4W R650 1-247-807-91 CARBON 330 5% 1/2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-07-91 RES-CHIP 15K 5% 1/10W R1200 1-216-067-91 RES-CHIP 15K 5% 1/10W R1200 1-216-067-91 RES-CHIP 5.6K 5% 1/10W | YBACK ITAL DRIVE LLIER ER (SRI) |
| R636 1-249-413-91 CARBON 470 5% 1/4W R637 1-216-041-91 RES-CHIP 470 5% 1/10W R639 1-208-8014-91 METAL CHIP 22K 0.5% 1/10W R640 1-208-803-91 METAL CHIP 100K 5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/10W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 10K 5% 1/10W R644 1-216-089-91 RES-CHIP 10K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R646 1-216-089-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 10K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-220-926-22 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10K 5% 1/10W R655 1-216-039-91 CARBON 30 5% 1/4W VDR601 1-803-830-31 VARISTOR (ERZV14D62: R656 1-247-807-91 CARBON 30 5% 1/4W R1200 1-260-093-81 CARBON 30 5% 1/2W R1201 1-260-093-81 CARBON 30 5% 1/2W R1201 1-260-093-81 CARBON 30 5% 1/2W R1201 1-216-077-91 RES-CHIP 15K 5% 1/10W A Board Variant Parts KV-21FX30 | YBACK ITAL DRIVE LLIER ER (SRI) |
| R637 1-216-041-91 RES-CHIP 470 5% 1/10W R639 1-208-814-91 METAL CHIP 22K 0.5% 1/10W R640 1-208-830-91 METAL CHIP 100K 0.5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/10W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-249-405-91 CARBON 100 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R6464 1-216-049-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 10K 5% 1/10W R648 1-215-481-91 METAL CHIP 10W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-061-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10K 5% 1/10W R655 1-216-061-91 RES-CHIP 10K 5% 1/10W R650 1-208-758-91 METAL CHIP 10W 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-061-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 CARBON 330 5% 1/2W R654 1-216-001-91 RES-CHIP 10K 5% 1/10W R655 1-216-060-93-81 CARBON 330 5% 1/2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1200 1-260-0 | ntal drive Llier Per (Sri) |
| R637 1-216-041-91 RES-CHIP 470 5% 1/10W R639 1-208-814-91 METAL CHIP 22K 0.5% 1/10W R640 1-208-830-91 METAL CHIP 100K 0.5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/10W R641 1-249-405-91 CARBON 100 5% 1/4W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R6464 1-216-049-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 10K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-073-91 RES-CHIP 10K 5% 1/10W R655 1-216-081-91 RES-CHIP 10K 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R657 1-216-073-91 RES-CHIP 10K 5% 1/10W R658 1-216-073-91 RES-CHIP 10K 5% 1/10W R650 1-247-807-91 CARBON 330 5% 1/2W R651 1-216-073-91 RES-CHIP 10K 5% 1/10W R652 1-216-081-91 RES-CHIP 10K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-073-91 RES-CHIP 10K 5% 1/10W R655 1-216-073-91 RES-CHIP 10K 5% 1/10W R660 1-247-807-91 CARBON 330 5% 1/2W R670 1-803-830-31 VARISTOR (ERZV14062: VARISTOR) R680 1-247-807-91 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-079-1 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | ntal drive Llier Per (Sri) |
| R639 | ntal drive Llier Per (Sri) |
| R640 1-208-830-91 METAL CHIP 100K 0.5% 1/10W R641 1-216-097-91 RES-CHIP 100K 5% 1/10W R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R644 1-216-089-91 RES-CHIP 47K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R646 1-215-481-91 METAL 330K 1% 1/4W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 9.1K 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10K 5% 1/10W R655 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R656 1-216-073-91 RES-CHIP 10K 5% 1/10W R650 1-247-807-91 RES-CHIP 10K 5% 1/10W R650 1-247-807-91 RES-CHIP 10K 5% 1/10W R650 1-216-073-91 RES-CHIP 10K 5% 1/10W R660 1-247-807-91 RES-CHIP 10K 5% 1/10W R660 1-247-807-91 RES-CHIP 10K 5% 1/10W R1200 1-260-093-81 CARBON 330 5% 1/2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-077-91 RES-CHIP 15K 5% 1/10W R1200 1-260-077-91 RES-CHIP 15K 5% 1/10W | ntal drive Llier Per (Sri) |
| R641 1-216-097-91 RES-CHIP 100K 5% 1/10W T531 1-437-210-21 TRANSFORMER ASSY, FI R642 1-249-405-91 CARBON 100 5% 1/4W T531 1-437-210-21 TRANSFORMER, HORIZOUT T601 | ntal drive Llier Per (Sri) |
| R642 1-249-405-91 CARBON 100 5% 1/4W R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R6464 1-216-049-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 11K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | ntal drive Llier Per (Sri) |
| T601 | ilter Fer (SRT) |
| R643 1-216-089-91 RES-CHIP 47K 5% 1/10W R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 1K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W | TER (SRT) |
| R645 1-216-073-91 RES-CHIP 10K 5% 1/10W R647 1-216-049-91 RES-CHIP 1K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R647 1-216-049-91 RES-CHIP 1K 5% 1/10W R648 1-215-481-91 METAL 330K 1% 1/4W R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 2ZK 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W A Board Variant Parts KV-21FX30 | TER (PIT) |
| R648 1-215-481-91 METAL 330K 1% 1/4W | |
| R649 1-208-805-91 METAL CHIP 9.1K 0.5% 1/10W R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W THP601 △ 1-803-586-41 THERMISTOR THP601 △ 1-803-951-11 THERMISTOR | |
| R650 1-208-758-91 METAL CHIP 100 0.5% 1/10W R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R651 1-220-926-21 FUSIBLE 0.47 10% 1/2W R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R652 1-216-081-91 RES-CHIP 22K 5% 1/10W R653 1-216-073-91 RES-CHIP 10K 5% 1/10W R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R653 1-216-073-91 RES-CHIP 10K 5% 1/10W | |
| R654 1-216-001-91 RES-CHIP 10 5% 1/10W R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| VDR601 | |
| R656 1-216-365-51 METAL OXIDE 0.47 5% 2W R660 1-247-807-91 CARBON 100 5% 1/4W | |
| R660 1-247-807-91 CARBON 100 5% 1/4W | .) |
| R660 1-247-807-91 CARBON 100 5% 1/4W | |
| R1200 1-260-093-81 CARBON 330 5% 1/2W R1201 1-260-093-81 CARBON 330 5% 1/2W R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R1201 1-260-093-81 CARBON 330 5% 1/2W X001 1-578-774-71 VIBRATOR, CRYSTAL R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W X201 1-760-628-21 VIBRATOR, CRYSTAL R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R1207 1-216-077-91 RES-CHIP 15K 5% 1/10W X201 1-760-628-21 VIBRATOR, CRYSTAL R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| R1208 1-216-067-91 RES-CHIP 5.6K 5% 1/10W A Board Variant Parts KV-21FX30 | |
| | |
| | |
| | |
| R1210 1-216-077-91 RES-CHIP 15K 5% 1/10W < TUNER > | |
| R1211 1-216-049-91 RES-CHIP 1K 5% 1/10W | |
| | /KV-21FV30B) |
| R1212 1-216-057-91 RES-CHIP 2.2K 5% 1/10W TU101 8-598-535-10 FRONTEND BTF-EF411 8-598-533-00 FRONTEND BTF-EC411 | • |
| | ,RV-ZIEKJUE/ZIEKJUK/ |
| R1213 1-216-049-91 RES-CHIP 1K 5% 1/10W *A-1639-020-A C Board, Complete | |
| R1214 1-210-049-91 RES-CHIP IN 5% 1/10W | |
| R1215 1-216-049-91 RES-CHIP 1K 5% 1/10W 4-382-854-01 SCREN (M3X8), P, SW | (+) |
| 1-210-041-31 KED-Chif 410 36 1/108 | • • |
| R1231 1-216-113-91 RES-CHIP 470K 5% 1/10W 4-362-654-UI SCREW (M3A8), P, SW | (1) |
| 21020 1-016-041-01 PPR CUTD 470 F8 1/10W < CAPACITOR > | |
| K1232 1-210-041-91 KES-Chip 4/0 36 1/10W | |
| R1233 1-216-113-91 RES-CHIP 470K 5% 1/10W | 10 000 050** |
| R1235 1-216-073-91 RES-CHIP 10K 5% 1/10W C701 1-136-189-91 MYLAR 0.1UF | |
| R1236 1-216-073-91 RES-CHIP 10K 5% 1/10W C702 1-126-964-91 ELECT 10UF | 20.00% 50V |
| C703 1-101-004-91 CERAMIC 0.01UF | 50V |
| <pre>< RELAY ></pre> | |
| C710 1-107-957-91 ELECT 1UF | 20.00% 250V |
| RY601 1-755-388-91 RELAY (AC POWER) | |
| C1803 1-101-005-91 CERAMIC 0.022UI | 50V |
| C1804 1-126-964-91 ELECT 10UF | 20.00% 50V |
| C1805 1-101-880-91 CERAMIC 47PF | 5.00% 50V |
| | |

C

| | PART.NO | DESCRIPTION | | REMAR | <u>{K</u> | REF.NO. | PART.NO | DESCRIP | TION | | REMA | <u>ırk</u> |
|--|---|---|--|---|-----------|----------------|------------------------------|------------|------------|----------|--------------|------------|
| | < CONNECT | OR > | | | | R1808 R1809 | 1-249-429-91 1-249-429-91 | | 10K 10K | 5% 5% | 1/4W 1/4W | |
| N702 | 1-695-915-21 | TAB (CONTACT) | | | | R1810 | 1-249-429-91 | | 10K | 5% | 1/4W | |
| N703 | | PLUG, CONNECTOR | 7P | | | | | | | | -, | |
| N706 | | TAB (CONTACT) | | | | | < VARIABL | E RESISTOR | > | | | |
| N707 | | PLUG, CONNECTOR | 5P | | | Į | | | • | | | |
| N1801 | | PLUG, CONNECTOR | | | | RV702 | 1-225-952-11 | RES, ADJ, | METAL FII | M 110M | I | |
| | | | | | | | | - | | | | |
| | < DIODE > | • | | | | | | | | | | |
| D701 | | DIODE 1SS133T-7 | 1 | | | 1 | | | | | | |
| 0702 | 8-719-901-83 | | | | | | | | | | | |
| 704 | 8-719-110-41 | DIODE RD15ES-B2 | | | | | | | | | | |
| 0705 | 8-719-302-43 | DIODE EL1Z | | | | | | | | | | |
| 706 | 8-719-901-83 | DIODE 18883 | | | | | | | | | | |
| 707 | 8-719-901-83 | DIODE 18883 | | | | | | | | | | |
| D708 | 8-719-109-97 | DIODE RD6.8ES-B | 2 | | | | | | | | | |
| D709 | 8-719-109-97 | DIODE RD6.8ES-B | 2 | | | | | | | | | |
| D710 | | DIODE RD6.8ES-B | | | | 1 | | | | | | |
| D1801 | | MTZJ-T-72-10B | | | | | | | | | | |
| D1802 | 8-719-048-53 | MTZJ-T-72-10B | | | | | | | | | | |
| D1802 | | MTZJ-T-72-10B | | | | | | | | | | |
| | < IC > | | | | | | | | | | | |
| | | | | | | | | | | | • | |
| IC701 | | IC TDA6107Q-N1 | | | | | | | | | | |
| IC1801 | 8-759-603-37 | 1C M5216P | | | | | | | | | | |
| | < SOCKET | > | | | | | | | | | | |
| J701 / | ∆ 1-251-595-11 | SOCKET, CRT | | | | 1 | | | | | | |
| | < COIL > | | | | | | | | | | | |
| | | TNIDITOTIOD 1: | OUH | | | | | | | | | |
| L704 | 1-414-183-31 | | | | | l . | | | | | | |
| L704 | 1-414-183-31 | | | | | | | | | | | |
| L704 | 1-414-183-31 < RESISTO | | | | | | | | | | | |
| R701 | < RESISTO | OR > | | 1/4W | | | | | | | | |
| R701 R702 | < RESISTO 1-247-903-91 1-249-429-91 | CARBON 11 CARBON 1 | 0K 5% | 1/4W 1/4W | | | | | | | | |
| R701 R702 R703 | < RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 | CARBON 11 CARBON 1 LEAD, JUMPER (5 | OK 5% .OMM) | 1/4W | | | | | | | | |
| R701 R702 R703 R704 | < RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 1-216-372-51 | CARBON 11 CARBON 10 LEAD, JUMPER (5 METAL OXIDE 1 | OK 5% .OMM) .8 5% | 1/4W 2W | | | | | | | | |
| R701 R702 R703 R704 | < RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 | CARBON 11 CARBON 10 LEAD, JUMPER (5 METAL OXIDE 1 | OK 5% .OMM) .8 5% | 1/4W | | | | | | | | |
| R701 R702 R703 R704 R705 | < RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 1-216-372-51 1-215-869-21 1-249-411-91 | CARBON 11 CARBON 11 CARBON 10 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 | OK 5% .OMM) .8 5% | 1/4W 2W | | | | | | | | |
| R701 R702 R703 R704 R705 | <pre></pre> | CARBON 11 CARBON 11 CARBON 10 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 | 0K 5% .0MM) .8 5% K 5% 30 5% | 1/4W 2W 1W | | | | | | | | |
| R701 R702 R703 R704 R705 | < RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 1-216-372-51 1-215-869-21 1-249-411-91 | CARBON 11 CARBON 10 CARBON 10 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 3. METAL OXIDE 11 | 0K 5% .0MM) .8 5% K 5% 30 5% | 1/4W 2W 1W 1/4W | | | | | | | | |
| 2701 2702 2703 2704 2705 2706 2712 | <pre></pre> | CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 | 0K 5% .0MM) .8 5% K 5% 30 5% K 5% | 1/4W 2W 1W 1/4W 1W 1/4W | | | | | | | | |
| 2701 2702 2703 2704 2705 2706 2712 2716 2718 | <pre></pre> | CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 3. METAL OXIDE 11 CARBON 3. SOLID 3. | 0K 5% .0MM) .8 5% K 5% 30 5% K 5% 30 5% 31 10% | 1/4W 2W 1W 1/4W 1W 1/4W | | | | | | | | |
| 2701 2702 2703 2704 2705 2706 2712 2716 2718 2726 | <pre>< RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 1-215-869-21 1-249-411-91 1-215-869-21 1-249-411-91 1-202-814-91 1-215-869-21</pre> | CARBON 11 CARBON 1 LEAD, JUMPER (5 METAL OXIDE 1 METAL OXIDE 11 CARBON 3. METAL OXIDE 11 CARBON 3. SOLID 3. METAL OXIDE 11 | OK 5% .0MM) .8 5% K 5% 30 5% K 5% 30 5% K 5% 30 5% K 5% | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W | | | | | | | | |
| R701 R702 R703 R704 R705 R706 R712 R716 R718 R718 | <pre></pre> | CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 3. METAL OXIDE 11 CARBON 3. SOLID 3. METAL OXIDE 11 CARBON 3. CARBON 3. | OK 5% .0MM) .8 5% K 5% 30 5% K 5% 30 5% K 5% 30 5% 30 5% | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W | | | | | | | | |
| R701 R702 R703 R704 R705 R706 R712 R716 R716 R726 | <pre></pre> | CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 3. METAL OXIDE 11 CARBON 3. SOLID 3. METAL OXIDE 11 CARBON 3. SOLID 3. SOLID 3. SOLID 3. SOLID 11 | OK 5% .0MM) .8 5% K 5% 30 5% 30 5% 30 5% 30 5% 30 5% 30 5% | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W 1/4W 1/2W | | | | | | | | |
| R701 R702 R703 R704 R705 R706 R712 R716 R718 R726 | <pre></pre> | CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 SOLID 33 SOLID 31 CARBON 33 SOLID 11 CARBON 33 SOLID 11 CARBON 33 | OK 5% .0MM) .8 5% K 5% .30 5% S | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W 1/4W 1/4W 1/4W | | | | | | | | |
| R701 R702 R703 R704 R705 R706 R712 R716 R718 R726 R727 R741 R1801 R1805 | <pre>< RESISTO 1-247-903-91 1-249-429-91 1-535-143-61 1-216-372-51 1-215-869-21 1-249-411-91 1-215-869-21 1-249-411-91 1-202-814-91 1-202-549-81 1-249-441-91 1-249-441-91 1-249-4429-91</pre> | CARBON 11 CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 SOLID 33 SOLID 11 CARBON 11 CARBON 11 CARBON 11 | OK 5% .0MM) .8 5% K 5% 30 5% K 5% 30 5% K 5% 30 5% G 5% C | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W 1/4W 1/4W 1/4W 1/4W | | | | | | | | |
| R701 R702 R703 R704 R705 R706 R712 R716 R718 R726 | <pre></pre> | CARBON 11 CARBON 11 CARBON 11 LEAD, JUMPER (5 METAL OXIDE 11 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 METAL OXIDE 11 CARBON 33 SOLID 33 SOLID 11 CARBON 11 CARBON 11 CARBON 11 | OK 5% .0MM) .8 5% K 5% .30 5% S | 1/4W 2W 1W 1/4W 1W 1/4W 1/2W 1W 1/4W 1/4W 1/4W | | | | | | | | |

Note: The components identified by shading and marked ≜ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO. PART.NO DESCRIPTION REMARK REF.NO. PART.NO DESCRIPTION REMARK

MISCELLANEOUS

△ 1-571-433-31 SWETCH, PUSH (AC POWER)
△ 1-765-286-11 CORD, POWER

△ 1-453-314-31 TRANSFORMER ASSY, FLYBACK 8-598-535-10 FRONTEND (BTF-EF411) (KV-21FX30B)

8-598-533-00 FRONTEND (BTF-EC411) (KV-21FX30E/21FX30K)

1-505-924-11 SPEAKER (15X6.5CM)

△ 8-738-836-05 PICTURE TUBE (A51LPT60X)

8-451-505-41 DEFLECTION YOKE (Y21RSA-L)

1-452-728-61 COIL, NA ROTATION (RT-154)

△ 1-419-772-11 COIL DEGAUSSING

△ 1-251-839-21 CAP ASSY, HIGH VOLTAGE

1-452-094-11 MAGNET, ROTATABLE DISK; 15MM Ø

1-452-032-11 MAGNET, DISK; 10MM Ø

ACCESSORIES AND PACKAGING MATERIALS

4-206-090-21 INSTRUCTION MANUAL (KV-21FX30B)

(GERMAN/FRENCH/ITALIAN/DUTCH)

4-206-090-11 INSTRUCTION MANUAL (KV-21FX30E)

(GERMAN/GREEK/TURKISH)

4-206-090-41 INSTRUCTION MANUAL (KV-21FX30E)

(ITALIAN)

4-206-090-51 INSTRUCTION MANUAL (KV-21FX30E)

(DANISH/SPANISH/NORWEGIAN/PORTUGUESE/

SWEDISH/FINNISH)

4-206-090-31 INSTRUCTION MANUAL (KV-21FX30K)

(BULGARIAN/CZECH/ENGLISH/HUNGARIAN/

POLISH/RUSSIAN)

*4-039-905-11 BAG, PROTECTION

*4-206-068-01 INDIVIDUAL CARTON

REMOTE COMMANDER

1-418-476-21 COMMANDER, STANDARD (RM-887)

TRAGE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

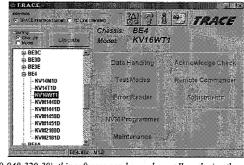
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70

TRACE Software (for users of the I²C Link interface): 9-948-340-80 TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

 $\ensuremath{^{*}}$ Windows NT only supported with TRACE interface